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## XLC127+ “DVX UPGRADE PROCESS”

### Tools Required:

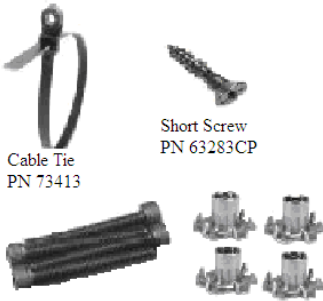
- Power Drill, ¼ Hex Head bit, Phillips head bit, electrical tape, short Phillips head screw driver.

### XLC-DVX Upgrade Kit EV Part Number 302063001

Note: You must have the newer diecast hydra's. See end of document for how to inspect or order.

### Parts Included:

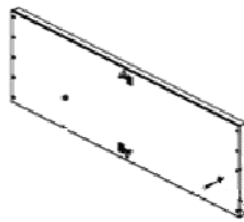
- 1 DVX3121 (PN 302034-001)
- 1 XLC127 DVX Mid-bass Assembly (PN ASY000037-000)
- EDS Sheets (PN LIT000017000)
- 1 Hardware Kit:
  - o 1 cable tie (PN 73413)
  - o 1 short screw (PN 63283CP)
  - o 4 Hex-Socket Screws (PN 581004-000)
  - o 4 T-Nuts (PN 20622)
  - o 1 Input Panel Label (LLA000031-000)

|                                                                                                                      |                                                                                                                                                  |                                                                                                                                                                                                                                        |                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|  <p>DVX3121<br/>PN 302034-001</p> |  <p>XLC127 DVX<br/>Mid-bass Assembly<br/>PN ASY000037-000</p> |  <p>Cable Tie<br/>PN 73413</p> <p>Short Screw<br/>PN 63283CP</p> <p>Hex Screw<br/>PN 581004-000</p> <p>T-Nut<br/>PN 20622</p> <p>Hardware Kit:</p> |  <p>Input Panel label<br/>PN<br/>LLA000031-000</p> |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

## Directions to remove parts from XLC 127+:

1. Using the provided space on the Parts Return Check list Form (Page 7). Document the Serial Number on the Input Panel.
2. Using a Phillips screwdriver (or Drill bit) remove the 10 screws (PN 63409MBX) from the grill.

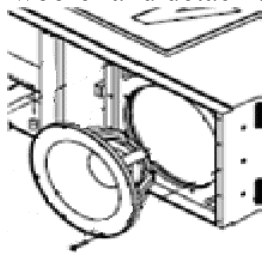
**Note:** Use caution not to loose plastic washer (PN 38809) that is installed between screw head and grill surface.



3. Using the ¼ Hex head wrench (or Drill bit) remove the 8 screws (PN 581004-000) that attach the DL12ST woofer to the cabinet.

**Note:** Extra T-nuts and woofer bolts are provided incase t-nut spins during removal. If you experience this type of t-nut spinning, please feel free to contact the factory for further advice on best method to remove woofer.

- 3.1. Gently lift the woofer and detach the wires that are connected to the woofer terminals.

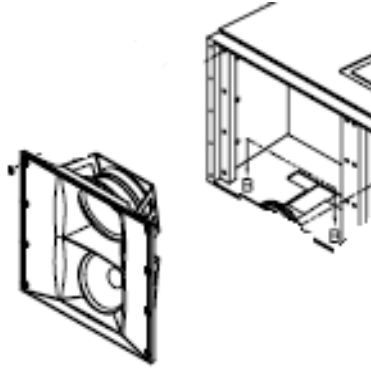


**\*TIP:** You may need to use the Flat head screwdriver to pry the woofer loose from the cabinet.

4. Using the Phillips screwdriver (or drill bit) remove the 8 screws (PN 581003-000) that hold the mid-bass assembly to the enclosure.

**Note:** Use caution not to loose plastic washer (PN 38809) that is installed between screw head and mid-bass horn.

- 4.1. Unhook the wires that are attached to the terminals of the mid-bass drivers.

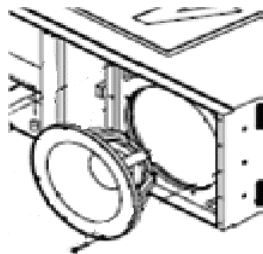


**\*TIP:** You may need to use the Flat head screwdriver to pry the mid-bass assembly loose from the cabinet.

## Directions for Installing Upgrade kit:

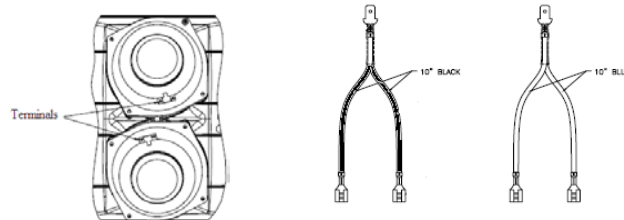
1. Connect the wires inside the woofer hole of the XLC cabinet to the terminals of the DVX woofer (PN 302034-001). Black wire to negative terminal and Red wire to positive terminal. Line up the holes of the woofer with the holes on the XLC cabinet.

- 1.1. Using the Hex head wrench (or Drill bit) insert the 8 (1/4-20) bolts (PN 581003-000) that were removed in previous step.



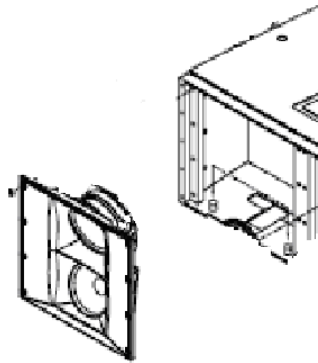
2. Attach the provided jumper wires to the terminals of the new mid-bass. Black wires to negative terminals and Blue wires to positive.

**Note:** The electrical terminals on the woofers are fragile. Support the woofer terminal while sliding on the wire connectors.

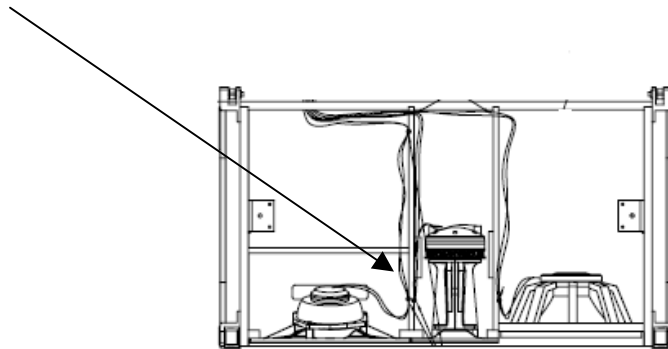


- 2.1. Align the new mid-bass horn with the cabinet. Connect the Black and Blue wires from the mid-bass assembly to the existing Black and Blue wires in the enclosure. Black wire to the negative and Blue wire to the positive.

**Note:** Please verify polarity before installing.



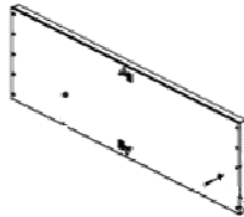
- 2.2. Wrap the electrical tape over the connection points where the leads meet. Cover all exposed metal to prevent electrical shorts.
- 2.3. Using the provided cable tie (PN 73413), wrap the excess cable and secure it with the cable tie.
- 2.4. Use the provided Phillips head short screw (PN 63344CP) to attach the cable tie to the inner wall of the cabinet between the mid-bass and the horn, (do not attach the screw to an outside wall, it could penetrate the cabinet.)



- 2.5. Using the Phillips screw driver (or Drill bit) attach the mid-bass assembly to the cabinet with the 8 screws (PN 581013-000) that were removed from the previous mid-bass.

3. Re-align the grill on top of the cabinet and attach using the 10 Phillips head screws (PN 63409MBX) that were previous removed.

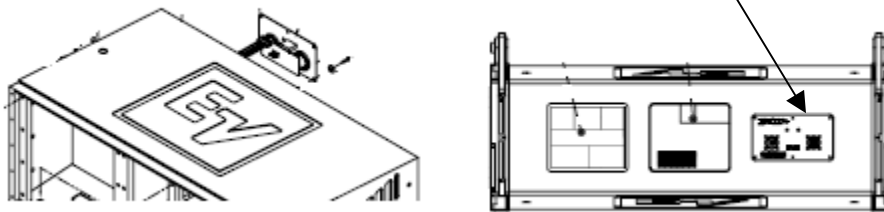
**Note:** Make sure that washers are still in place to prevent damage to powder coat surface.



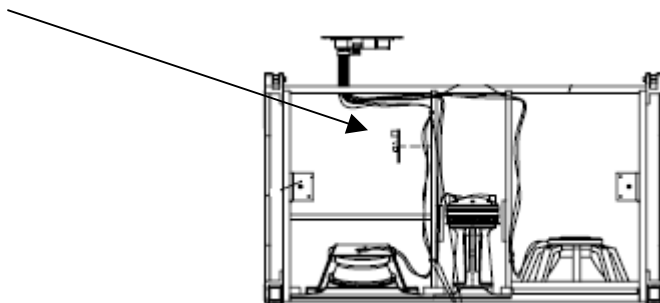
4. Remove the six screws (PN 581007-000) and washers (PN 38865) that secure the input panel to the back of the enclosure.

**Note:** Double check to make sure serial number has been documented. If not, using the provided space on the Parts Return Check list Form (Page 7). Document the Serial Number on the Input Panel.

- 4.1. Apply the new Xlc127DVX input panel label (LLA000031-000) on top of the existing input panel label.

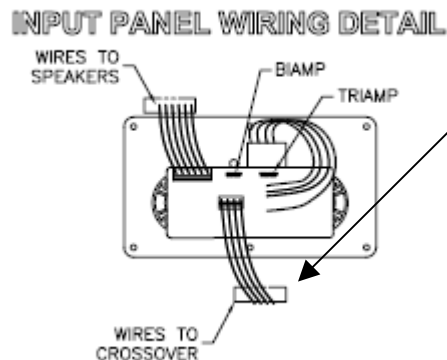


- 4.2. Using a short Philips head screw driver remove the screw (PN 63054CP) that secures the Crossover inside the cabinet (PN 560230-000).



- 4.3. Remove the crossover (PN 560230-000) by detaching the cable to the crossover from the input panel.

**Note:** Will not function with the DVX component.



**Note:** Warranty will be VOID if crossover is not removed. If cabinet is to be used in Bi Amp mode – Crossover is available for DVX as an accessory only. All new XLC127+DVX will be shipped without crossovers.

- 4.4. Re-attach the input panel with the six screws (PN 581007-000) and washers (PN 38865).
5. Verify all signal paths and polarities.

Pins 1 = Pass Through

Pins 2 = 12" LF driver (8ohms nominal impedance)

Pins 3 = 2 – 6.5" Mid bass drivers (16 ohm in parallel for 8 ohm nominal impedance load).

Pins 4 = 2 – 3" HF drivers (16 ohm in parallel for 8 ohm nominal impedance load).

6. Contact Telex EV Customer support at 1-800-685-2606 option 3, and retain RA #.

Information you will need when you call:

- Original Order information ex. Telex Sales Order Number
- Reason for return = upgraded
- Serial numbers for each cabinet.

7. Fill out Return Information Form (page 7)

Return this form with the original components for credit.

8. Repackage loudspeaker, mid bass assembly, and crossover in original cartons that upgrade kits were sent in.



## Parts Return Check List Form

RA#

|                                      |                             |
|--------------------------------------|-----------------------------|
| Customer Name:                       | Customer Acct# if available |
| Address:                             |                             |
| City, State, Zip Code                |                             |
| Phone No.                            | Fax No.                     |
| Contact Name if Different than Above |                             |

|                    |              |
|--------------------|--------------|
| Original Order No. |              |
| Part Number        | Qty Returned |
|                    |              |
|                    |              |
|                    |              |
|                    |              |

|                 |
|-----------------|
| Serial Numbers: |
|                 |
|                 |
|                 |
|                 |
|                 |

**ALL** parts must be returned for credit to be issued.

- DL12ST 12" Loudspeaker PN 301460-003
  - XLC 127+ Mid bass sub assembly PN 800760-000
  - Crossover PN 560230-000
- } Equals 1 Credit

Return to:  
 Telex Communications  
 ATTN: RMA Dept  
 #1 Telex Drive  
 Morrilton, AR 72110



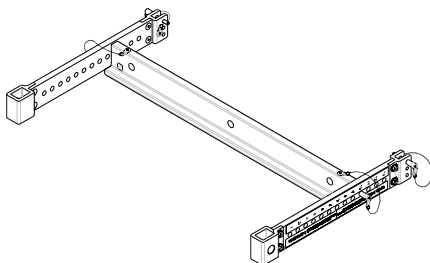
## Upgrade of the A1 and A2 Grids for “XLC-DVX Systems”

The center of gravity of all previous Xlc loudspeaker systems is centered left to right. However, the center of gravity of the Xlc127DVX and Xlc127DVX loudspeaker systems is shifted off center towards the low-frequency side. Thus, if a single hoist motor is used from the center hole in the spreader bar to suspend the A1 or A2 grids overhead, a column of Xlc127DVX loudspeaker systems will not hang straight. Nor would a column of Xlc127DVX systems with Xlc118 or Xlc215 subwoofers at the top hang straight.

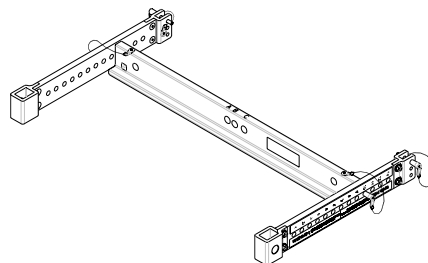
The B1 and B2 grids were developed specifically for the Xlc127DVX loudspeaker systems and have additional center holes in the grid spreader bar that allow for Xlc127DVX systems to hang straight. In the new spreader bars, the original center hole remains (to be used with all older Xlc systems), but two additional holes have been added for the Xlc127DVX loudspeaker systems. The hole furthest off center would be used when suspending Xlc127DVX systems only. The hole slightly off center would be used when subwoofers (either Xlc118 or Xlc215) are hung at the top of the array with Xlc127DVX systems at the bottom of the array.

The older A1 and A2 grids may be used to suspend Xlc127DVX systems if two hoist motors are used in the left/right configuration.

The figure below shows the older A1 and newer B1 grids. The only difference between the older and newer grids is the spreader bar. A program exists that allow owners of A1 or A2 grids to trade in their older spreader bars for new spreader bars. This effectively upgrades their grids to the new B1 and B2 models that may be used with either older or newer Xlc loudspeaker systems.



Older A1 Grid



B1 Grid – XLC DVX or “+”

## Upgrade the High-Frequency Section If Necessary:

The high-frequency section contains two ND6 compression drivers that are each mounted on an acoustic lens (commonly referred to as a hydra), that are in turn secure to the high-frequency horn. Early production systems were built with hydras that were manufactured from urethane (PN 500584-000). The hydras were later redesigned for improved performance and were manufactured out of aluminum (PN 800594-000).

Typically units produced after February 2004 (SN: 04060) have the die-cast hydr's.

Any Xlc loudspeaker system that contains urethane hydras **MUST** be upgraded to aluminum hydras when undergoing the XLC-DVX upgrade.

Using the Phillips screwdriver (or drill bit) remove the 8 screws (PN 581003-000) that hold the high-frequency assembly to the enclosure.

**Note:** Use caution not to loose plastic washer (PN 38809) that is installed between screw head and high-frequency horn.

Inspect the hydras. If they are made out of metal and have part number 800594 on the side they do not need to be upgraded. If the hydras are not made of metal and do not have part number they should be upgraded to the aluminum hydras. The 301888-000 upgrade kit may be ordered for this purpose. Please contact the Morrilton parts department for ordering.