



XLC-DVX Series Crossover Retrofit Installation Instructions



YOU WILL NEED:

- POWER DRIVER/DRILL
- ONE 6" (152MM) LONG #2 PHILLIPS POWER DRIVE BIT
- ONE 12" (305MM) LONG (OR LONGER) POWER DRIVE EXTENSION
- HEAVY-DUTY STAPLER WITH APPROX. 9/16" LONG STAPLES

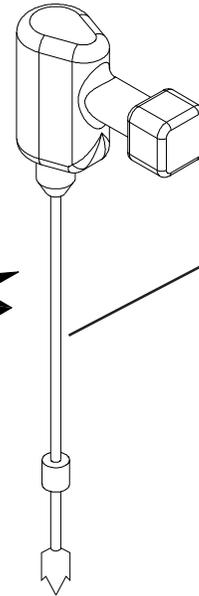
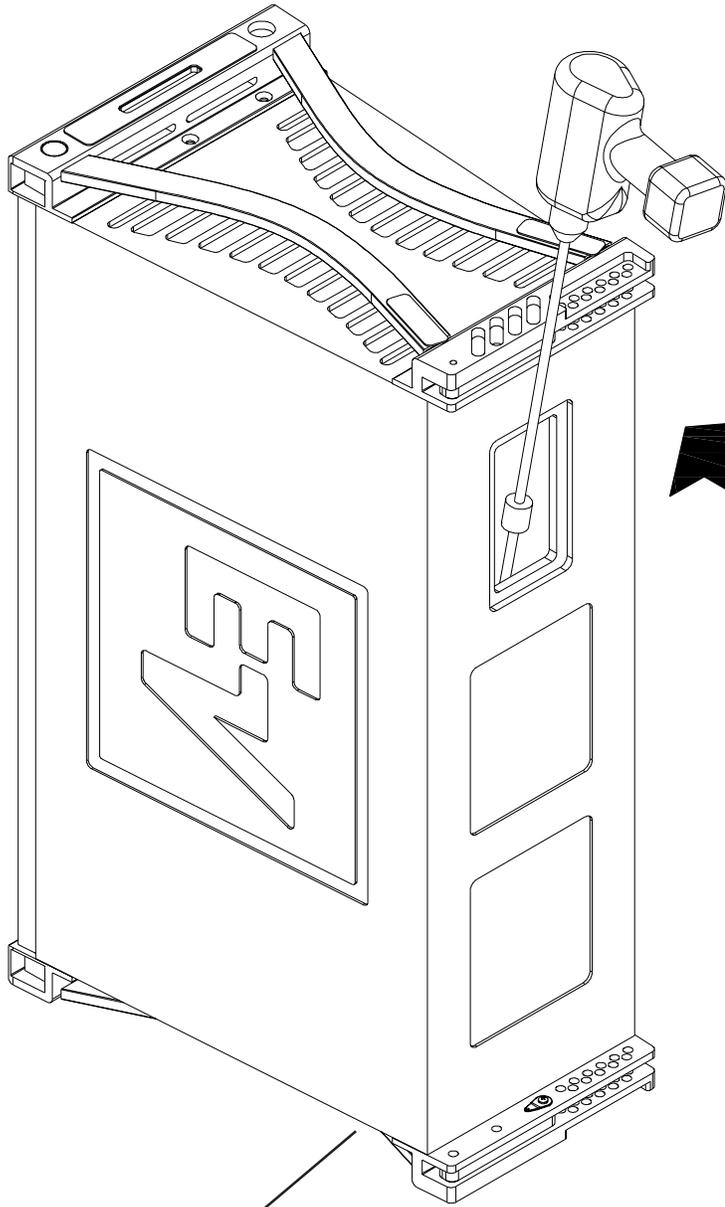
KIT000003-000 XLC-DVX CROSSOVER PARTS LIST		
P/N	DESCRIPTION	QTY.
ASY000038-000	CROSSOVER, XLC-DVX	1
63283-CP	SCREW, 10-16 x 3/4"	10
CME000140-030	FOAM, WIRE SEAL	1
591621-000	BATTING, 12" X 12"	1
71987	BAG, PLASTIC, 5" X 8"	1
LIT000053-000	INSTRUCTIONS, XLC-DVX CROSSOVER	1

IF YOU HAVE EARLY PRODUCTION XLC-DVX CABINETS OR XLC-127+ CABINETS UPGRADED TO XLC-DVX YOU WILL ALSO NEED:

- ONE 1" (25MM) WOOD BORING BIT TO FIT THE 12" (305MM) EXTENSION
- A VACUUM CLEANER TO REMOVE WOOD CHIPS AND OTHER DEBRIS

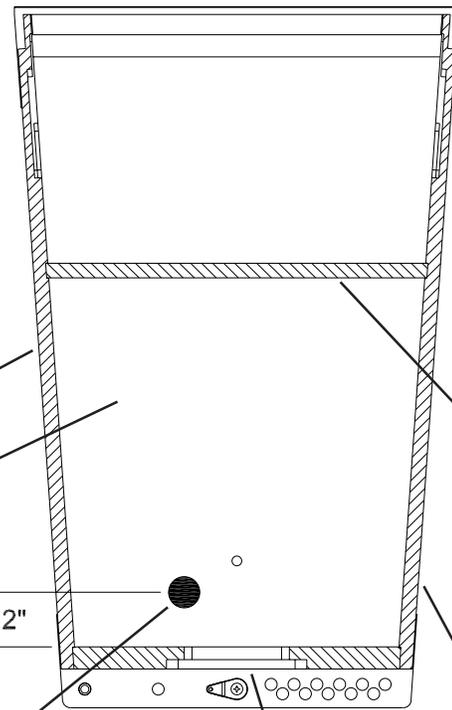
- 1) LAY THE CABINET ON ITS BACK AND REMOVE THE SCREWS SECURING THE GRILLE. REMOVE GRILLE AND SET ASIDE.
- 2) REMOVE THE SCREWS SECURING THE HIGH FREQUENCY ASSEMBLY TO THE ENCLOSURE. **CAUTION: TAKE CARE NOT TO ALLOW ANYTHING TO DROP DOWN THE HORN THROAT INTO A HYDRA!!!** CAREFULLY LIFT THE ASSEMBLY OUT OF THE ENCLOSURE FAR ENOUGH TO ACCESS THE WIRES CONNECTING TO THE COMPRESSION DRIVERS.
- 3) LOOSEN THE SCREWS CONNECTING THE BLACK AND WHITE WIRES FROM THE ENCLOSURE TO ONE OF THE DRIVERS AND DISCONNECT THE WIRES. DO NOT REMOVE THE JUMPER WIRES BETWEEN DRIVERS. SET THE ASSEMBLY ASIDE FACE DOWN.
- 4) REMOVE ALL BATTING AND STAPLES IN THE HIGH FREQUENCY CHAMBER AND DISCARD. INSPECT THE WIRING WHERE IT PASSES THROUGH THE SIDE PANEL INTO THE CHAMBER BEHIND THE **MIDBASS** SECTION. IF THE WIRING IS SEALED IN THE PANEL WITH A BLOCK OF CLOSED CELL FOAM IN AN OBLONG HOLE, REMOVE THE FOAM AND SKIP TO STEP (11). IF THERE IS NO FOAM AND ONLY A SMALL ROUND HOLE FILLED WITH CAULK, CONTINUE WITH STEP (5).
- 5) STAND THE ENCLOSURE UPRIGHT ON THE WOOFER END SO THE INPUT PANEL IS EASILY ACCESSABLE.
- 6) REMOVE THE SIX SCREWS HOLDING THE INPUT PANEL AND PULL IT CLEAR OF THE ENCLOSURE.
- 7) UNPLUG THE SIX-CONDUCTOR WIRING HARNESS FROM THE INPUT PANEL. IF YOUR ENCLOSURE WAS ORIGINALLY EQUIPPED WITH A PASSIVE CROSSOVER NETWORK (XLC127+) UNPLUG IT AND SET THE INPUT PANEL ASIDE. **REMOVE AND DISCARD THE ORIGINAL PASSIVE NETWORK. IT WILL NOT WORK WITH THE XLC-DVX COMPONENTS.**
- 8) ASSEMBLE THE 1" (25MM) WOOD BORING BIT TO THE 12" (305MM) EXTENSION AND POWER DRILL. STANDING AT THE REAR OF THE ENCLOSURE, ALIGN THE BORING BIT SHAFT TO THE LEFT SIDE OF THE INPUT PANEL CUT-OUT AND POSITION THE POINT OF THE BIT ON THE INTERIOR DIVIDER PANEL APPROXIMATELY 2" (50MM) IN FROM THE REAR OF THE ENCLOSURE. (FIG. 1) CAREFULLY BORE A HOLE THROUGH THE DIVIDER PANEL IN LINE WITH THE LEFT EDGE OF THE INPUT PANEL CUT-OUT AND APPROXIMATELY 2" (50MM) AWAY FROM THE REAR PANEL OF THE ENCLOSURE. **BEFORE DRILLING, CHECK TO BE SURE THERE ARE NO WIRES IN THE WAY ON EITHER SIDE OF THIS PANEL!!!**
- 9) CLEAN THE HOLE OF SPLINTERS AND DEBRIS AND THOROUGHLY VACUUM CLEAN BOTH CHAMBERS.
- 10) RETURN THE ENCLOSURE TO ITS FACE UP POSITION.

**Isometric View
(Input Panel Removed)**



**Power Drill with
1" (25mm) Boring Bit
on a 12" (305mm)
Extension**

**Cutaway View
(Input Panel and MB Assembly
Removed for Clarity)**



**XLC-127
Enclosure**

Top Panel

**Divider Panel Between
MB Chamber and HF
Chamber**

APPROX. 2"

**MB Rear
Panel**

**Drilled Hole
(Aligned to Left Edge
of Input Cutout)**

**Rear Panel
(Input Cutout)**

Bottom Panel

Figure 1: Drilling the Wiring Through Hole on the Divider Panel of the Enclosure

- 11) CAREFULLY MANUEVER THE NEW CROSSOVER UNDER THE WIRING HARNESS IN THE HIGH FREQUENCY CHAMBER. IF EXTRA SLACK IS NEEDED IN THE WIRING HARNESS, PULL IT FROM THE MIDBASS SIDE ONLY. THE INDUCTOR WITH THE BRASS SCREW SHOULD BE NEXT TO THE PANEL BETWEEN THE HIGH FREQUENCY AND MIDBASS CHAMBERS. THIS PLACES THE WIRING HARNESS FROM THE CROSSOVER PCB NEAREST THE DIVIDER PANEL THRU-HOLE. (FIG. 2)
- 12) CENTER THE CROSSOVER PCB ON THE HIGH FREQUENCY CHAMBER REAR PANEL AND, USING THE DRIVER/DRILL WITH THE 6" (152MM) LONG PHILLIPS BIT ON THE 12" (305MM) EXTENSION, SECURE WITH THE TEN #10 X 3/4" SCREWS PROVIDED. **BE CAREFUL NOT TO DAMAGE ANY COMPONENTS ON THE PCB WHILE DRIVING SCREWS!!!**
- 13) **OLDER SYSTEMS:** FEED THE CROSSOVER WIRING THROUGH THE HOLE YOU JUST DRILLED. WRAP THE SUPPLIED FOAM BLOCK AROUND THE WIRES (FIG. 3) AND STUFF IT INTO THE HOLE TO SEAL IT. INSPECT THE EXISTING WIRING HARNESS WHERE IT PASSES THROUGH THE SIDE PANELS. **IMPORTANT: IF ANY OF THESE SEALS HAVE BEEN DISTURBED THEY MUST BE RESEALED.** RTV SILICONE CAULK MAY BE USED FOR THIS PURPOSE. **NEWER SYSTEMS:** FEED THE CROSSOVER WIRING THROUGH THE OBLONG HOLE WITH THE EXISTING WIRING. WRAP THE SUPPLIED FOAM BLOCK AROUND THE WIRES (FIG. 3) AND STUFF IT INTO THE HOLE TO SEAL IT. INSPECT THE WIRING WHERE IT PASSES THROUGH THE WOOFER SIDE PANEL AND MAKE SURE THE FOAM SEALING BLOCK THERE HAS NOT BEEN DISTURBED. THERE SHOULD BE APPROXIMATELY .50" (13MM) OF FOAM PROTRUDING EVENLY FROM THE HOLE. REMOVE AND RE-STUFF IF NECESSARY.

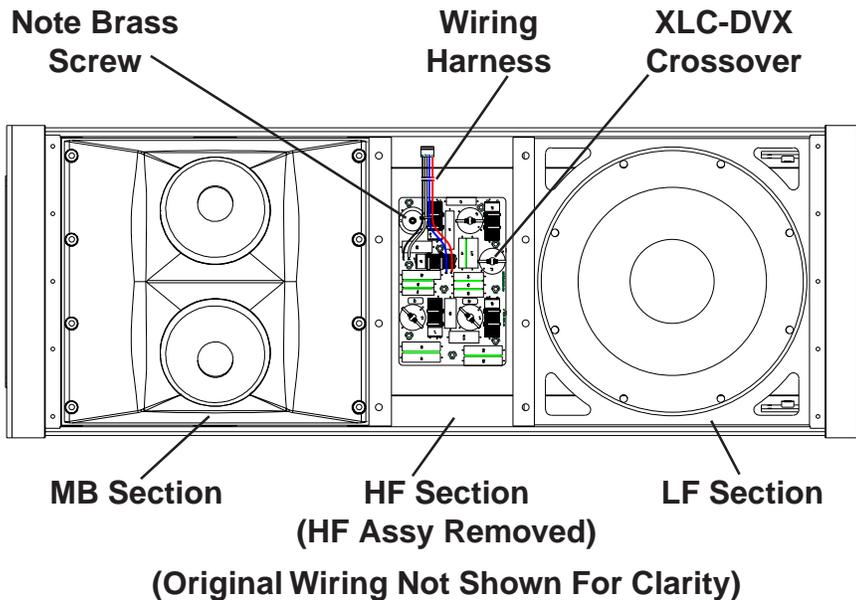


Figure 2: Installing the Crossover and Wiring on the Rear Panel of the Enclosure

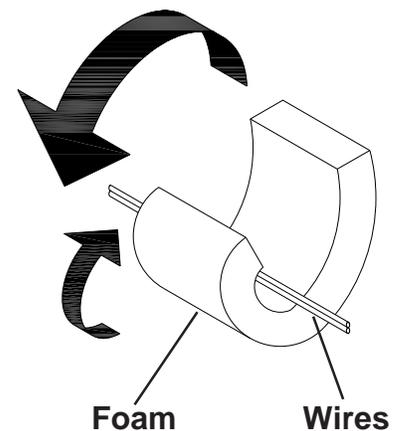
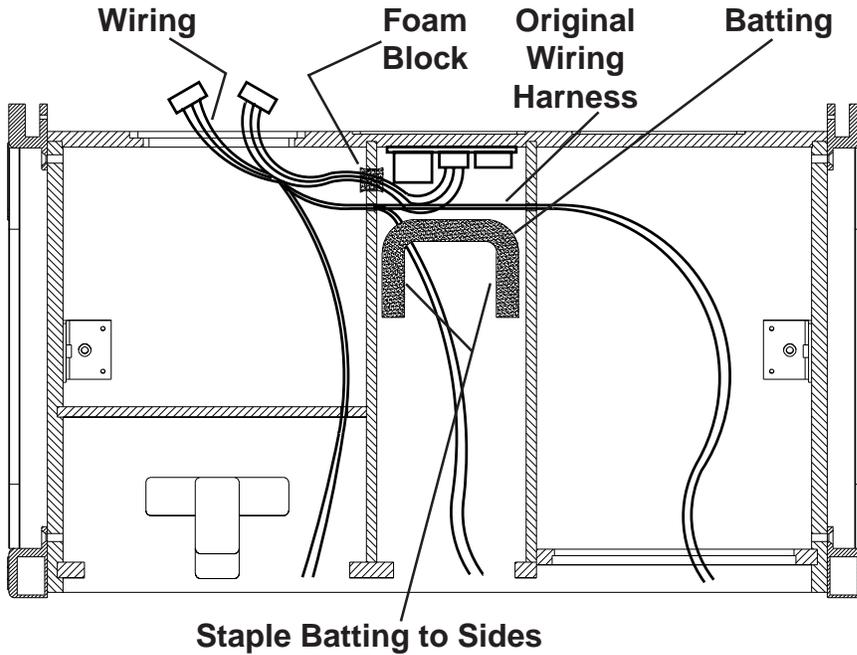


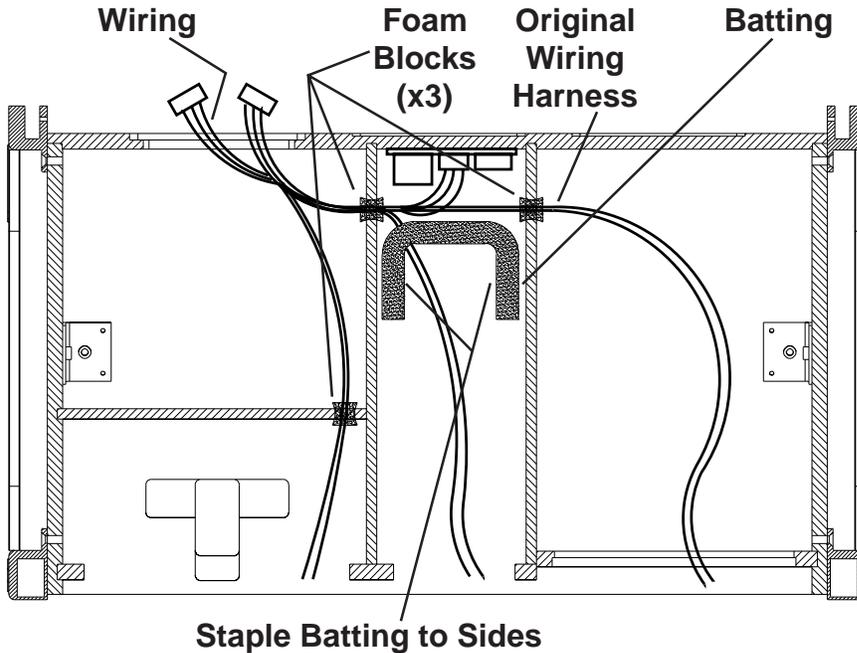
Figure 3: Wrapping Foam Block Around Wires

- 14) FOLD THE NEW PIECE OF BATTING INTO A SHALLOW "U" SHAPE AND PRESS IT INTO PLACE ONLY AS FAR DOWN AS THE ORIGINAL WIRING HARNESS. (FIG. 4) ROUTE THE BLACK AND WHITE WIRES FOR THE HIGH FREQUENCY DRIVERS UNDER THE EDGE OF THE BATTING. CAREFULLY STAPLE BATTING TO THE SIDE PANELS TAKING CARE NOT TO STAPLE ANY WIRES.
- 15) RE-ATTACH THE BLACK AND WHITE WIRES TO THE COMPRESSION DRIVER ON THE HIGH FREQUENCY ASSEMBLY. OBSERVE PROPER POLARITY: BLACK WIRES TO (-) AND WHITE WIRES TO (+). DO NOT OVER-TIGHTEN.
- 16) REASSEMBLE THE HIGH FREQUENCY ASSEMBLY TO THE ENCLOSURE.
- 17) RE-ATTACH THE GRILLE TO THE ENCLOSURE.
- 18) STAND THE ENCLOSURE UPRIGHT ON THE WOOFER END. (IF YOU SKIPPED STEPS 5 THRU 10 REMOVE THE INPUT PANEL AT THIS TIME.) REACH IN THROUGH THE INPUT PANEL CUT-OUT AND LOCATE THE WIRING HARNESS FROM THE NEW CROSSOVER. PLUG IT ONTO THE 4-CONDUCTOR HEADER ON THE INPUT PANEL PCB AND RECONNECT THE SIX CONDUCTOR CONNECTOR.



Older Version

Note: These Views Show the Enclosure without Input Panel or Transducers



Newer Version

Figure 4: Installing New Batting in Center Chamber

- 19) MOVE THE SELECTOR PLUG FROM "TRIAMP" TO "BIAMP" POSITION AND **DOUBLE CHECK YOUR WORK**. BE SURE ALL PINS ARE COMPLETELY AND SECURELY ENGAGED.
- 20) RE-INSTALL THE INPUT PANEL.
- 21) TEST:
 - a. 1+, 1- THRU
 - b. 2+, 2- 12" (305MM) WOOFER
 - c. 3+, 3- PASSIVE MID/HI SECTION
 - d. 4+, 4- THRU

EV Electro-Voice®

12000 Portland Avenue South, Burnsville, MN 55337
Phone: 952/884-4051, Fax: 952/884-0043

www.electrovoice.com

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Part Number LIT000053-000 Rev A

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For warranty information, contact the Service Repair department at: **616/695-6831 or 800/685-2606**
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Specifications subject to change without notice.