

[Item #0711-XLCD]

XL Display & Premium Enhanced Sound System Upgrade Kit

[To be used with MMR HD Color Display Upgrade (Item #0611)]

This kit includes:

XL Display Speaker
Panel Assembly



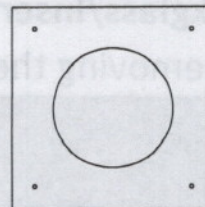
Speaker Adapter Cable



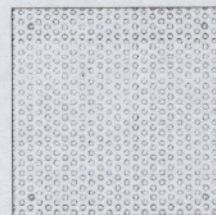
8" Upgraded Woofer



Woofer Pilot Hole Template



Woofer Grill



3/32" Drill Bit



(4x) #8 x 3/4" Hex Head Screws



(2x) Wire Nuts

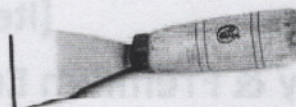


Tools you will need:

Phillips Head Screwdriver



Wide Flat Chisel



Hammer



Diagonal Cutters

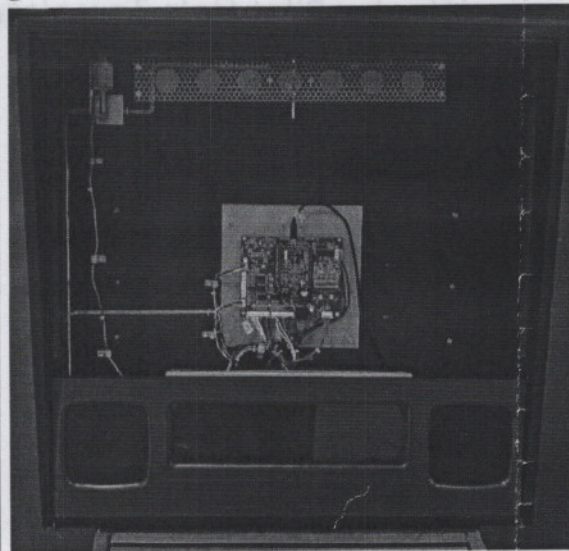


Power Drill with 1/4" Driver

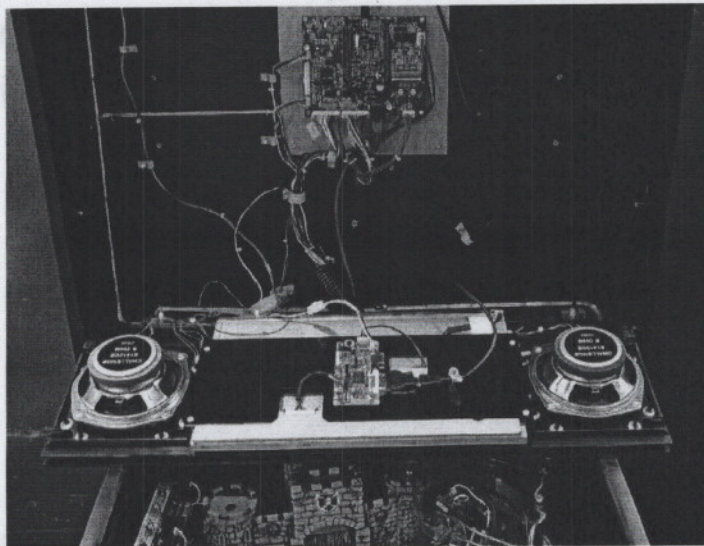


Installing Display

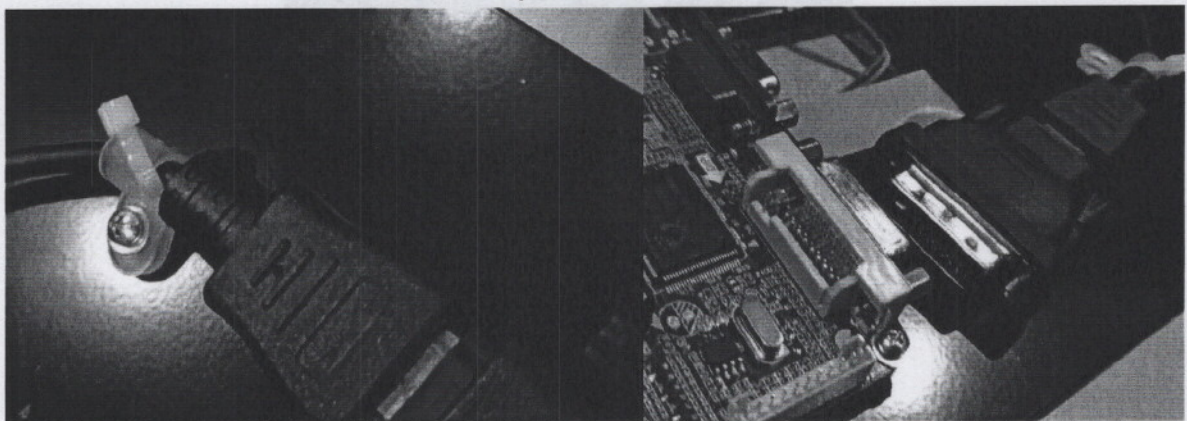
- 1) Remove the **Backglass/Insert Panel**. See page 1-3 of the manual for information on removing the **Backglass/Insert Panel**.



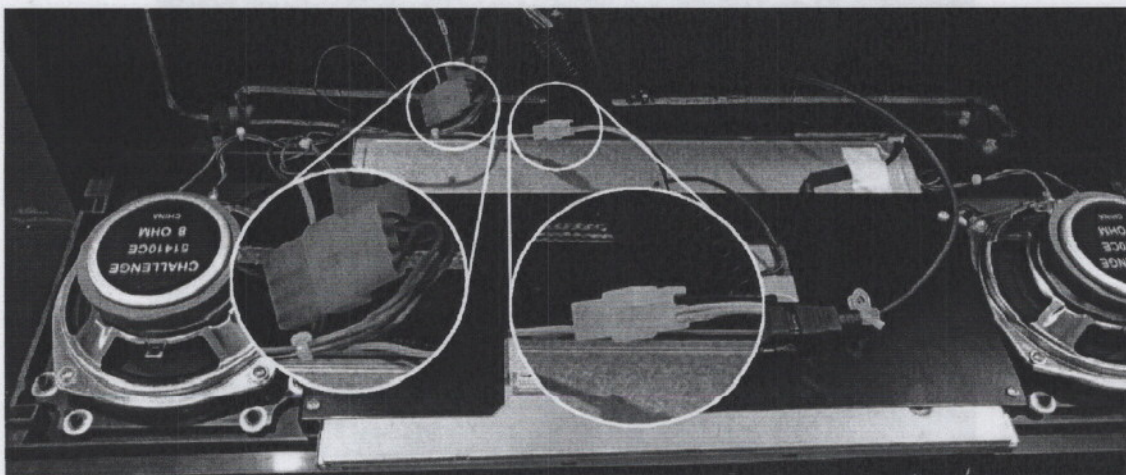
- 2) Lift the **Speaker Panel Assembly** and place in its lowered position.



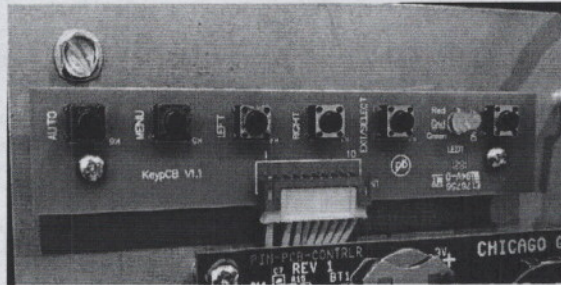
- 3) Remove the screw holding the cable clamp which secures the HDMI cable. Disconnect the DVI adapter from the monitor board.



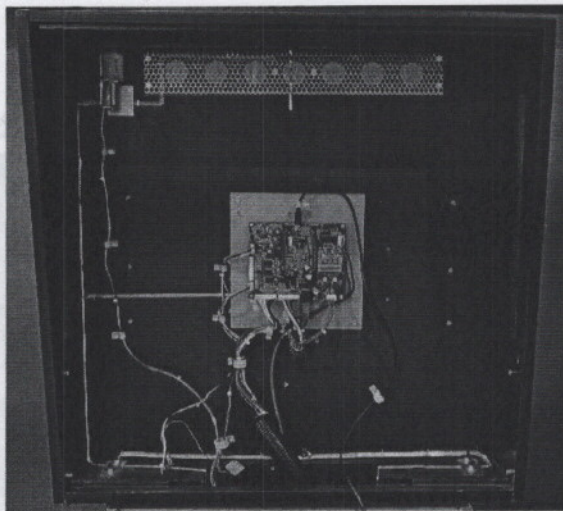
- 4) Disconnect the yellow and black cable at this connector. Disconnect the speaker cable. Depending on the version of the game you own, this would be either a 3 or 4 pin connector.



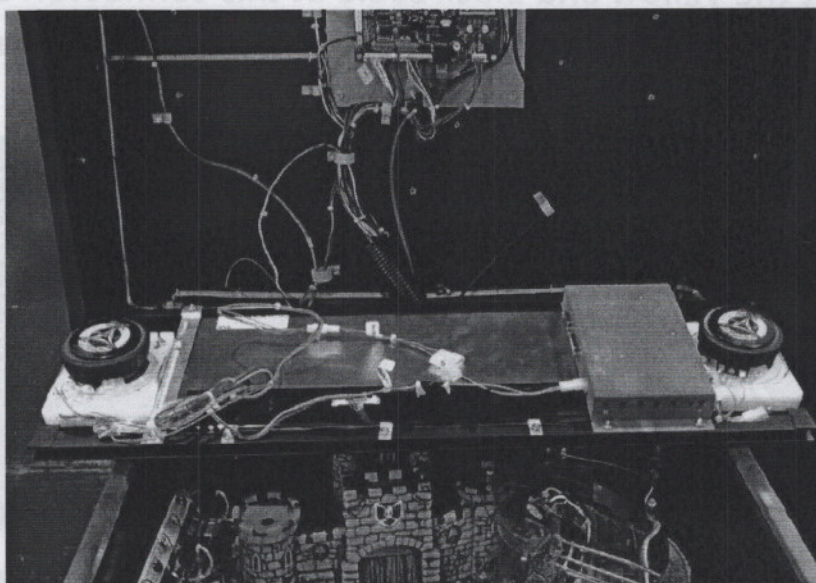
- 5) Remove old **On-Screen Display Keyboard**. There are two screws securing the board. Remove the cable connected to this as well. On different versions of Medieval Madness, this board is installed in different locations.



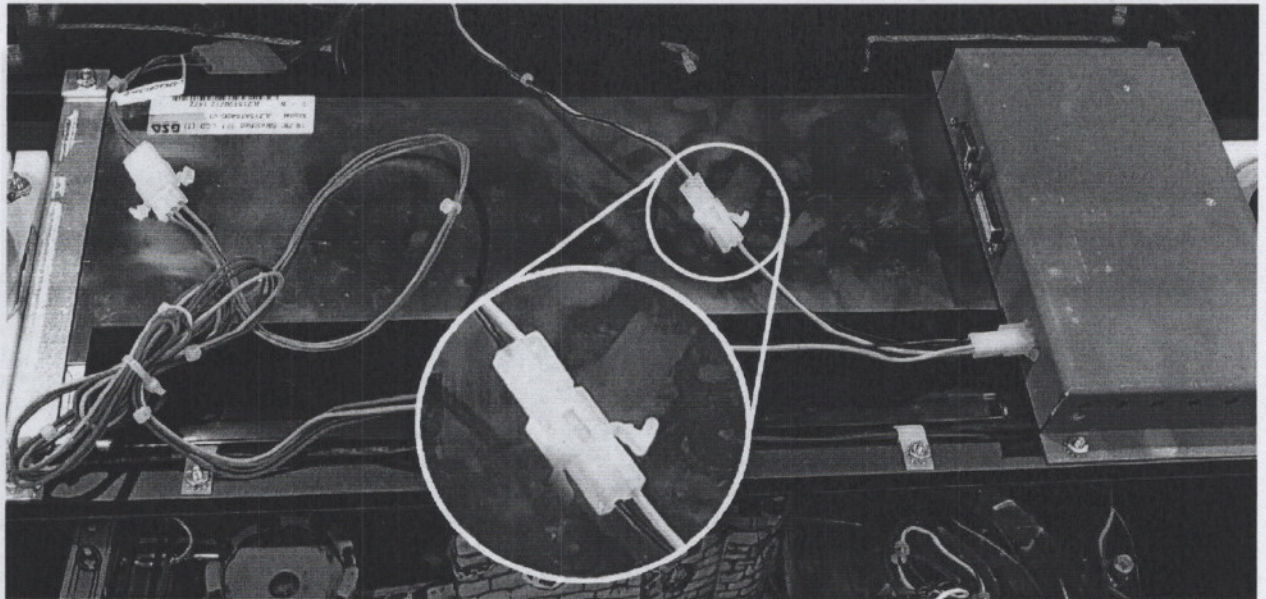
- 6) Completely remove the **Speaker Panel Assembly** from the backbox.



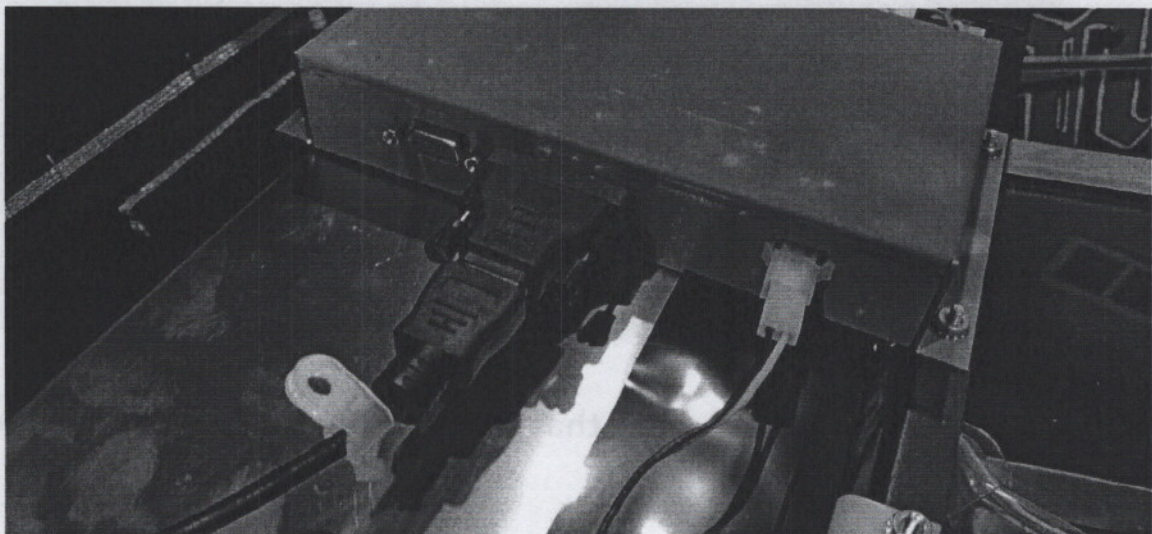
- 7) Place the new **XL Display Speaker Panel Assembly** in its lowered position.



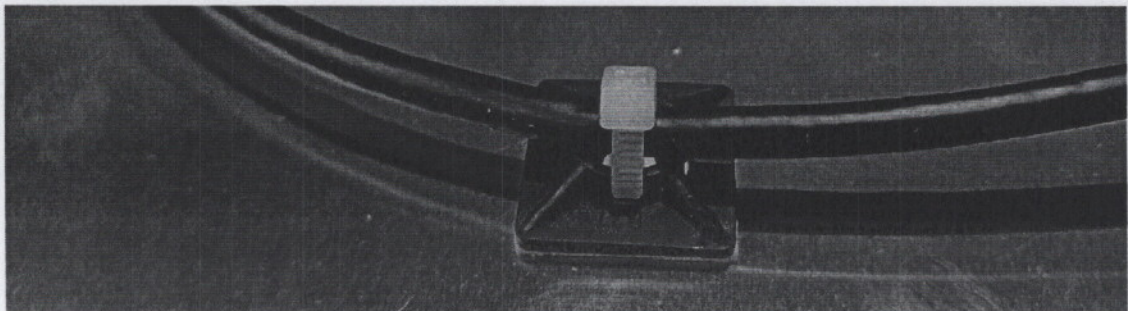
- 8) Connect the power cable that was disconnected from the old monitor to the new monitor.



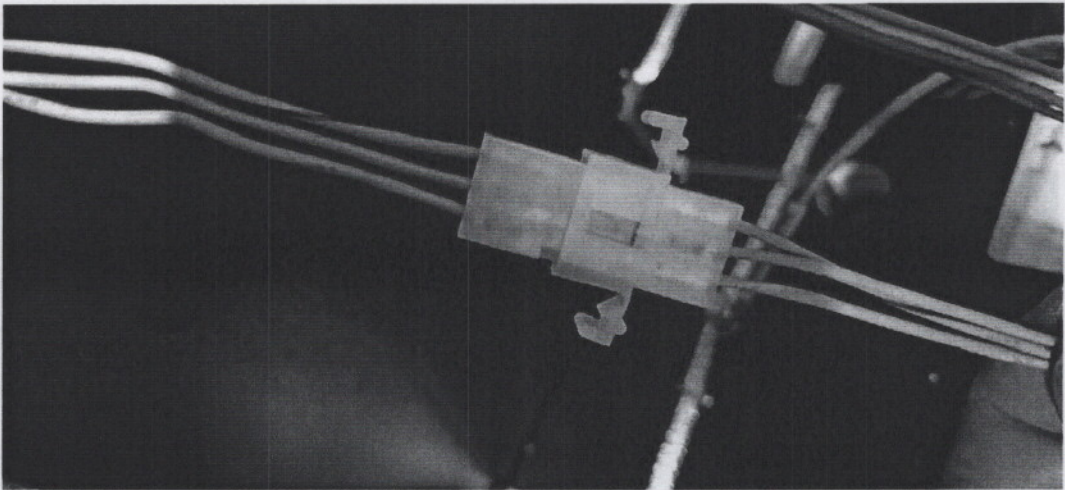
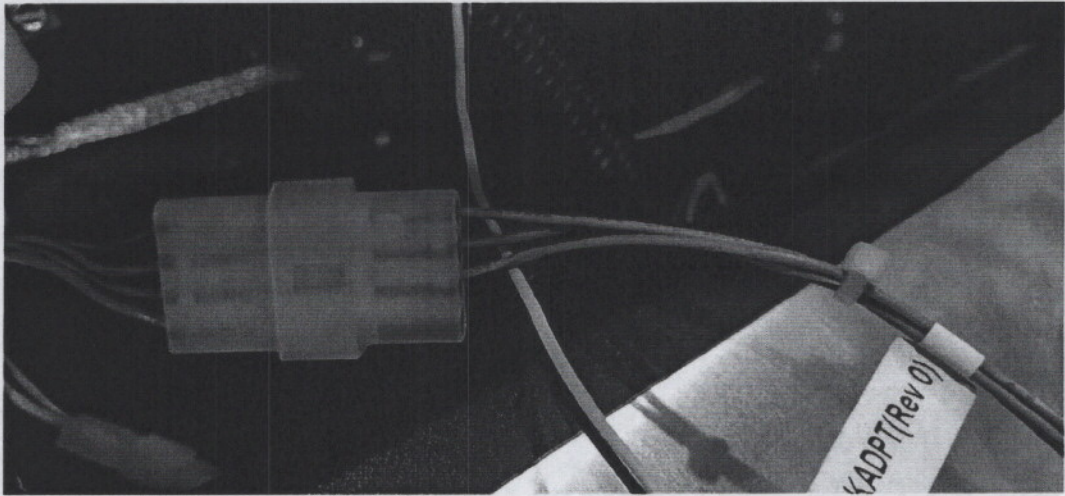
- 9) Connect the DVI video cable to the new monitor.



- 10) Use the included cable tie to secure the HDMI cable to the cable tie mount on the back of the display.



- 11) If you have a revision 1 MM cabinet speaker cable, use the included speaker adapter to connect speakers. Otherwise, plug the new speakers directly into the cabinet cable.



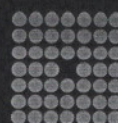
- 12) Power on the game and check that the new monitor, speakers, and speaker lights are working.

10) Use the included cable tie to secure the HDMI cable to the cable tie mount on the back of the display.



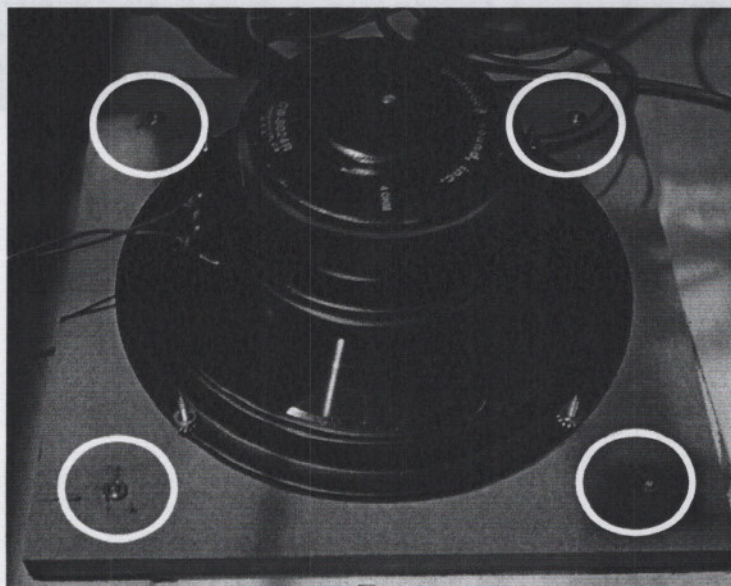
- 13) If your game is not colorized, confirm that you have the PIC installed in the playfield PCB from **HD Color Display Upgrade (Item #611)**. Also, check in the CGC menu if COLORIZED is ON or OFF. Press and hold the SERVICE/ESCAPE button on the coin door for 5 seconds. Press SERVICE one more time to go to the next menu. At the bottom of the screen it will tell you if COLORIZATION is ON, OFF, or NOT INSTALLED.

SYSTEM MENU – PRESS SERVICE TO ADVANCE		
DISPLAY COLOR		GREEN
RED		32
GREEN		100
BLUE		16
INCANDESCENT EMULATION		SLOW
BACKBOX BRIGHTNESS		MAX
COLORIZE		ON
PRESS START TO LOAD CUSTOM LOGO		



Installing Woofer

- 14) Remove the playfield glass.
- 15) Remove pinballs and lift the playfield to its upright position.
- 16) **CAUTION:** Secure the playfield in its upright position using bungees, straps, or rope.
- 17) If your cabinet has visible screws and nuts holding your woofer to the bottom of the cabinet, simply remove the nuts, cut the wires from the speaker, and skip to step 25. Secure the new woofer with the same nuts.



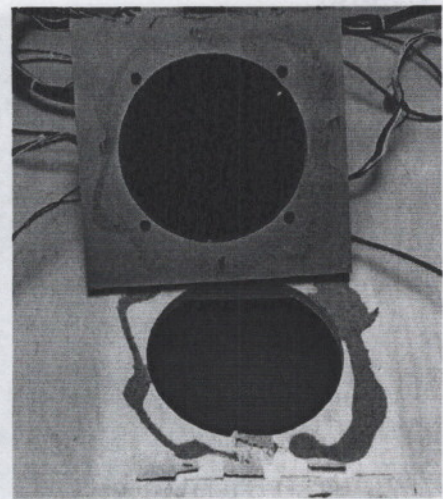
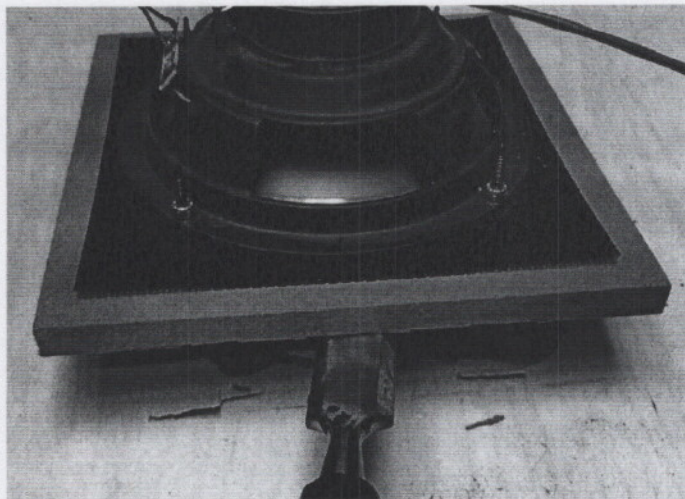
- 18) Cut the wires from the old woofer close to the speaker terminals.



- 19) Use hammer and chisel to remove the wood woofer speaker mount. If you have a shaker motor installed, you may need to remove the shaker motor to have enough room for the chisel.

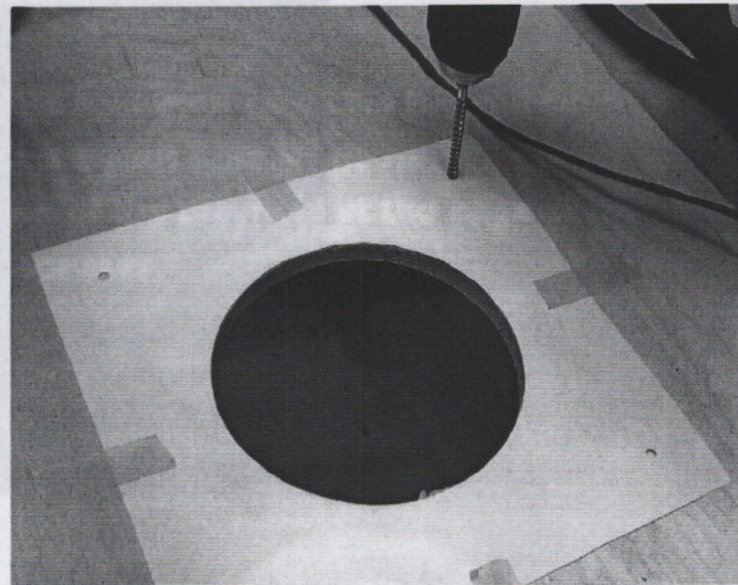
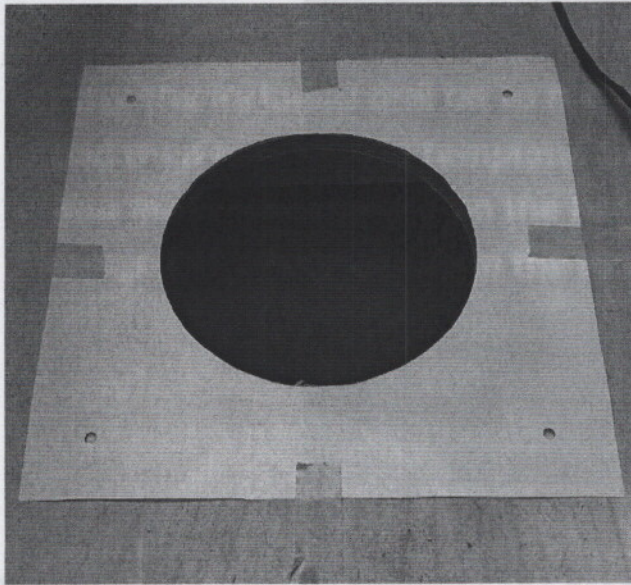


- 20) Once you get the chisel underneath the speaker spacer, you can start prying up. Note that here are four staples helping secure the spacer to the cabinet. The spacer can be removed by prying up from just the front side of the square.



- 21) Use the included template to mark the four holes for the new woofer. Align the center hole in the template so it is concentric with the hole in the speaker floor and parallel to the sides of the cabinet; then tape the template in place.

22) Use the included drill bit to make the four pilot holes for the screws, and then remove the template. Drill the pilot hole $\frac{1}{4}$ " deep. You can also make some marks on the bottom of the playfield at the edge of the template to help you align the new speaker.

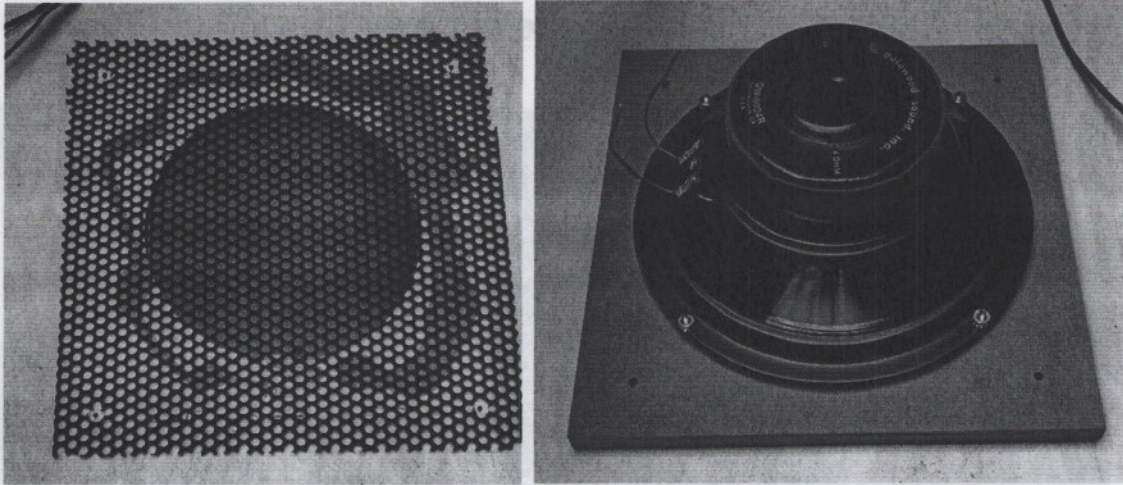


23) If the cabinet is a bit rough from the chisel, use a sanding block to smooth it down. This will be covered by the new speaker and not visible.

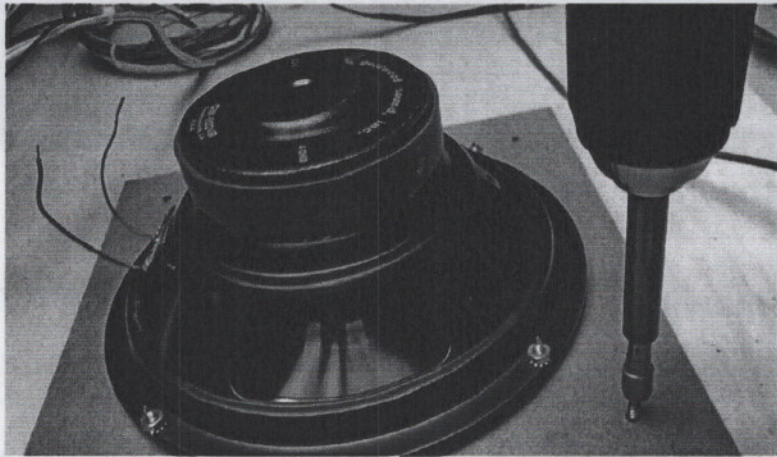


24) Lay down the new speaker grill over the newly drilled holes.

25) Put the woofer on top of the speaker grill, aligning the holes in the cabinet with the holes in the woofer mount.



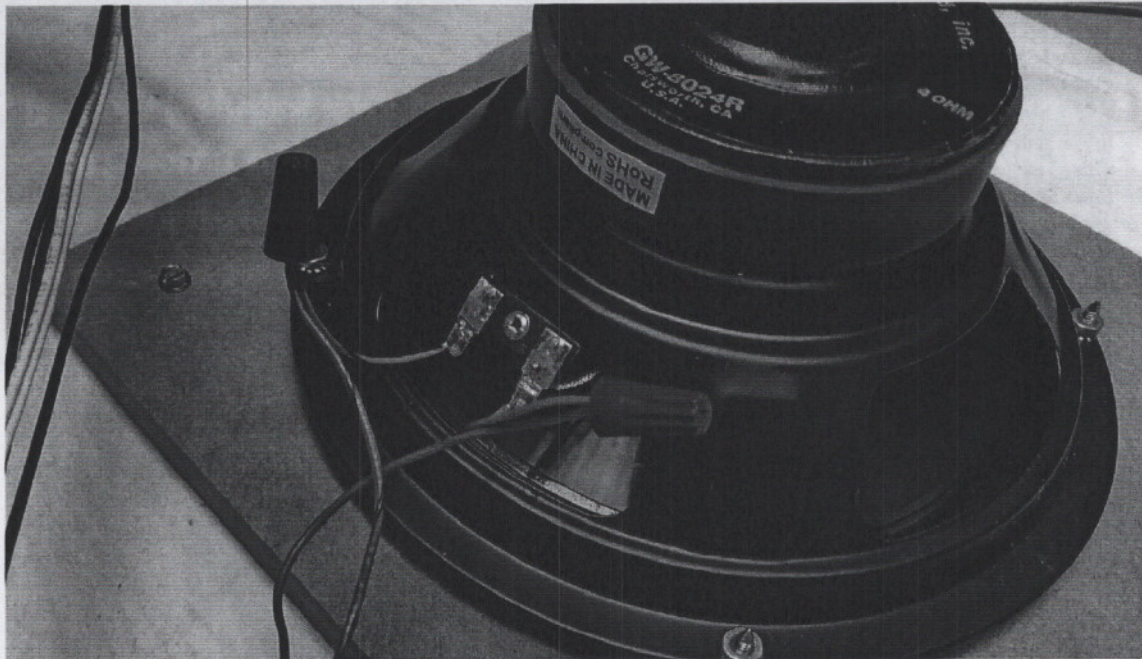
26) Use the 4 included #8 x 3/4" screws to mount the woofer to the cabinet.



27) Strip 1/4" of insulation off wires you cut from the woofer. If you do not have wire strippers, use the diagonal cutters to gently cut through the insulation without cutting the wire. While squeezing, pull towards the end of the wire to remove the insulation.



- 28) Use the included wire nuts to connect the cabinet speaker wires to the same colored wires coming off the woofer. Twist the two ends of the wires together, then twist the wire nut over the end of the wires clockwise to secure.



- 29) Power on the game, and check that woofer is working.
- 30) Lower the playfield; install balls, playfield glass and front molding; and reinstall the **Backglass/Insert Panel**.

- 31) If you need assistance, please open a helpdesk ticket at:

www.chicago-gaming.com/support/helpdesk.



