



## **SWTR-4-12**

### **For Stern Games**

Open the backbox (the key usually hangs inside the coin door) and remove the fluorescent tube. Then remove the speaker panel and place it on the base cabinet, a towel for padding is recommended.

Remove the 4-inch speakers and un-plug them at the 2 pin connector. Install the new speakers using the new screws and nylon spacers below the speaker flange for support. Replace any ground wires. Note: the speakers will not sound proper until installed on the speaker panel, DO NOT test in free air.

Install the L-Pad control on the right side of the cabinet below the florescent tube and above the speaker panel using two Philips head screws provided, if you are using an LED panel, mount it low enough as to not interfere with the light panel.

Unplug the speaker connector from the sound board and plug the wire with the plug from the 4V volume control into it. You can leave the old wiring in place. Connect the 4 pin plug onto the sound board. Observe the locking tabs for proper connection. Route the long wire into the base cabinet for the subwoofer and connect the lighter gauge speaker wires to the backbox speakers. The longer of the two goes to the left speaker. Reinstall the speaker panel only.

Remove the lock down bar and glass. Remove the pinballs and tilt up your playfield.

Next remove the 8" woofer from the base cabinet. This is done by removing the nuts from the studs holding down the speaker. You will also need to desolder or clip the wires attached to the woofer. Then remove the speaker studs by tapping them out with a hammer, then they can simply be reinstalled in the event you choose to reinstall the OEM speaker.

Now install the 12" subwoofer, positioning it over the 8" slots or hole and use the 8 - 1" screws to fasten it to the cabinet. The 12" subwoofer has a special gasket to hold it off of the cabinet floor and to prevent fluttering sounds cause by the speaker hitting the cabinet. Finally plug in the wires previously routed from the back box to the Subwoofer. The red wire goes to the "+" terminal on the subwoofer board, the black to the "-" terminal. Be careful not to break the board. Note: you may need to move the transformer to one side or the other, most machines this is not required.

Close up the base cabinet and turn on the game. Adjust the volume of the game up from where you normally used it and turn down the backbox speakers for a moderate volume. The sound from the base cabinet speaker is adjusted with the master volume control on the coin door and then reducing the backbox level with the 4V backbox volume control to balance the sound. Once you achieve a satisfactory balance between the base cabinet and backbox, the coin door control is used to set the overall volume up or down for daily play. It is not recommended to run the machine at full volume.

If the cover glass rattles with the bass, anti rattle tape is available at [www.pinballpro.com](http://www.pinballpro.com) part number AR-1.

Re-install the florescent tube and close the backbox with the glass and re-check the sound balance. A small adjustment may be necessary with all the covers in place.

[www.pinballpro.com](http://www.pinballpro.com)

