

Wurlitzer modification required for conversion kit installation

Installing the ENCO 4-in-1 CDM4 conversion kit requires the following minor modification for which the steps are detailed below:

First, replace the controller board by removing one small Phillips screw at the upper right corner by the audio connectors and loosening two nuts at the bottom corners of the board. You will find that the white plastic insulators are actually eccentric and only need to be rotated counterclockwise to release the bottom of the board. The board then tips out and down to remove.

There are two small U channels (colored blue) one at each side of the top of where the board mounts to the chassis. The one on the right twists out of line and prevents the top of the board from going all the way up at the right side until it lines back up. You may not notice it is there at first. It may appear that the conversion board is taller than the original, but that is not the case. When inserted in the channels properly it fits perfectly.

Second, remove the old player by first removing the large metal shield from below. There are two small nuts at the back left, 2 Phillips-head screws on the right and three in the front. The player drops down and out the front. This permits access to reach up from below to the bottom of the player.

Remove two bolts from the player carriage from the top front and right side. You are then able to grasp and remove the springs (one from each bolt) by reaching up from the bottom under the drive.

There are four screws holding the player and mounting tray assembly to the carriage. Remove those screws next and carefully tip the assembly out from below.

It is a tight fit, but the player comes out with a little wiggling and the wire harness followed.

This seems to be the easiest way to remove the player without disassembling the carriage and other moving parts from above. This method avoids disturbing other components that would then require further adjustment.

Third, remove the CD player from the metal bracket it sits in by removing four screws. The bracket should come apart into two pieces with the drive mounted to the bottom one.

The player is rubber mounted with four standoffs inserted through rubber grommets. They are all the same length, but on one end there are two aluminum spacers as the CDM-4 is taller at one end than it is at the other. Remove the player by taking out the screws from the top of the standoffs using a #10 torx wrench and lift the player off, leaving the standoffs inserted in the rubber grommets.

The new CD-Pro player has standoffs attached that have metal springs integrated with them. Remove the standoff and spring assembly from each leg.

When you compare the two players you will find that their footprints are the same. However, the exception is that the new CD-Pro player has a circuit board on the bottom that is square on the corners. This board will interfere with the hole in the metal bracket where it mounts. It is required to square up the corners of the hole in the metal mounting bracket and to elongate it on one end, in order to clear the circuit board. Use a die grinder with a mettle burr. This small modification should only take a few minutes.

Once the hole in the mounting bracket is sized so the player fits in, set the player on the original standoffs and rubber mounts. The height should be correct. Replace the screws, reassemble the mounting bracket and attach the new wire harness.

*Note – Be sure to create a flexible ground strap from the player to the mounting bracket. If this step is omitted a loud hum and very poor sound reproduction will result. Adding the ground will eliminate any hum and distortion problems.

Further notes: Remounting the player bracket is a little tricky. However, it should go back up in the hole from below, smoothly and without brute force. The wiring harness should be threaded behind the chassis. After putting in the four screws loosely to hold the player in the mounting bracket in place the springs and bolts should be replaced one at a time and adjusted so that the CD retaining arm sets down squarely on top of the drive. Finally, tighten the four screws.

Now reconnect all wires and replace metal panels. The beautiful but formerly silent Wurlitzer should once again be a fully functional jukebox.

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