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Technical Note TN5

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DSP7200 Chassis replacement

Meridian thoroughly recommends that this operation is carried out with two people and in an appropriate environment with facilities for disassembly. It can be carried out on a customer's premises, but unnecessary risks are introduced. This document covers both circumstances. The process can take up to 90 minutes with the correct staff and tools

1. Begin by moving the loudspeaker to a position where it can be accessed from all angles.
2. Clear the room in front of the speaker's position so that any small items (screws and similar objects) are not at risk of piercing the foam and damaging the cabinet. Lay the foam sleeve out on the floor in front of the speaker so that the feet are touching the sleeve. This is necessary so that the entire front face of the loudspeaker will be protected.





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3. Tilt the speaker forward and gently lay it down on the foam sleeve so that any cables are not fouling the cabinet.



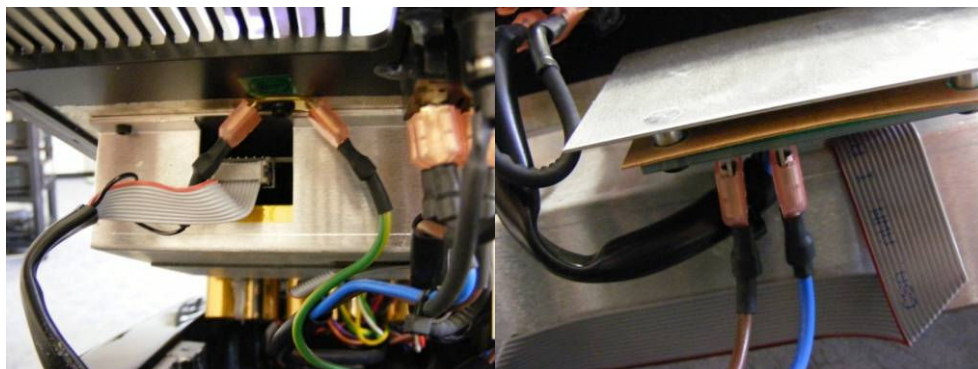
4. Remove the four T15 Torx screws holding the bottom-most plate in place. Disconnect the mains cable and any other connected cables. Once the small panel and the cables are removed, you should also now remove the four screws holding the input PCB to the cabinet.



5. Remove the nine T15 Torx screws securing the chassis to the cabinet. As the chassis weighs approximately ten kilograms, it is advised that two people are available to ensure that no damage to the cabinet is caused.



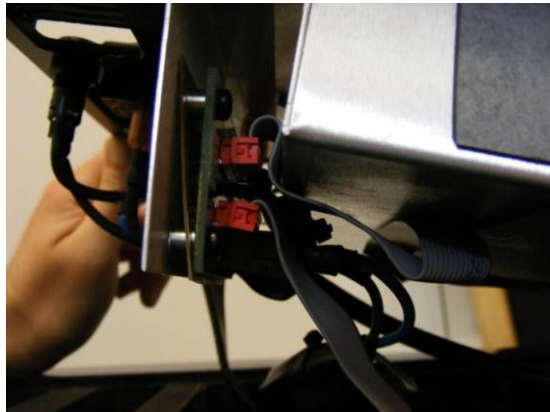
6. Once the screws are removed from the chassis, it can be moved sideways to loosen it from the cabinet. Begin to lift it from the bottom edge of the speaker being careful to observe the wiring looms and how they are connected.



7. Remove the display loom and ground connection and also the mains earth connection. The mains live and neutral can also be removed at this point.

N.B. Locations of the wiring looms are shown in the photographs in this document, however it is also beneficial to note the locations yourself.

8. Now remove the bottom of the two looms in the picture below. You can see how the slightest raising of the chassis has moved the connector. You must be careful the on lifting the chassis, you do not damage the connector, and also on refitting that it is fully connected.



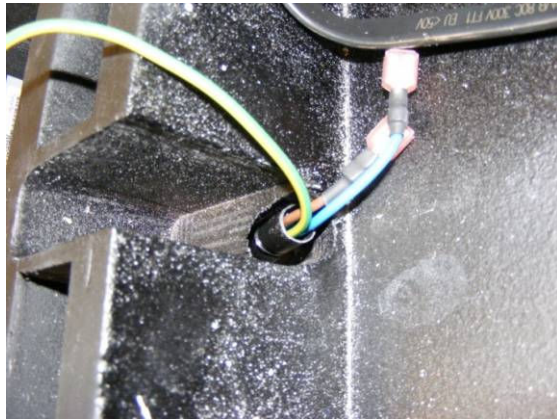
9. As you lift the bottom of the chassis, you will see the speaker cable connecting the amplifiers to the drive units. The black loom on the right is the mid/tweeter loom, coming from the amplifier on the left. The black loom on the left is the mid/bass loom and comes from the amplifier on the right.



10. Disconnecting these two looms should leave you able to withdraw the chassis from the speaker.



11. The input PCB should be removed by disconnecting the grey loom and withdrawing the two looms carefully so that they are not damaged. When replacing with the new grey loom, it is recommended that the grey loom is inserted first, as it is difficult to insert it with the mains loom.



12. Refitting is the reversal of removal. Care must be taken when placing the chassis into the cabinet recess as, due to its weight, it can easily damage the loudspeaker cabinet.
13. There are two lengths of rubber which serve to provide some protection for the cabinet from the metal chassis. These should be inserted at the top first and fitted between the cabinet and the length of the chassis.
14. Refit all screws and ensure parts are secure before returning the speaker to the standing position.
15. Power the speaker up and test it by bringing it out of standby with an MSR+. If possible use a 2 channel S/PDIF digital signal to test the speaker before returning it to the customer.

Important:

When refitting the chassis, please be absolutely sure that all the looms are properly connected. Not connecting one or more looms can produce strange behavior as well as partial or complete non-operation of the product.