

How to fit Receiver DT10 to Cochlear Nucleus CP800 Series

Cochlear Nucleus® CP810 is built in three different versions: A, B and C. Only Cochlear Nucleus® CP810 Version C supports the use of the Receiver DT10. The version of the CP810 is identified by the last letter in the serial number on the sound processor. The serial number is located in the curved inside edge of the CP810. See the pictures on the right hand side. Cochlear Nucleus® CP810 versions A and B only support the Receiver DH10.



Required Parts

1. The Receiver DT10
2. Euro Accessory Adaptor
3. The Programmer DT05
4. Monitor Headphones for Cochlear Nucleus®CP800 series



Before fitting the Receiver DT10 to Cochlear Nucleus® 810 Ver. C

Please ensure that each step below is carefully followed before making any attempt to connect the Receiver DT10 to the Sound processor.

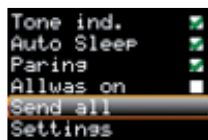
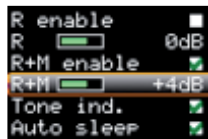
Recommended channel list

To avoid radio disturbances emitted from the sound processor it is highly recommended to perform a HA scan as described in the section "Programmer DT05", before choosing radio transmission channel. The following radio transmission channels are recommended for use with the Receiver DT10 and CP810 ver. C in Canada and USA. Channel: 1-3, 6-12, 15-20, 23-28, 31-33 and 36-38.

1. Preparing the Receiver DT10

Please use the Programmer DT05 in order to change the settings of the Receiver DT10 in this step.

- a. Attach the Receiver DT10 into the Programmer DT05
- b. Choose an appropriate radio transmission channel with respect to the results from the HA scan and the "Recommended Channel List" above and pair the Receiver DT10 with the intended Comfort Digisystem Transmitter.
- c. Set a check mark for the "R+M enable"
- d. Set the output level for R+M to +4 dB
- e. Set the check mark for the "Tone indicator"
- f. Set a check mark for the "Auto Sleep"
- g. Set a check mark for "Pairing"
- h. Uncheck "Always On"
- i. Set the Receiver DT10 to the pairing mode
- j. Send all settings to the Receiver DT10 by selecting "Send all" → "Continue"
- k. Ensure that the Comfort Digisystem is functioning properly by listening with headphones through the Programmer DT05 while someone speaks into the Comfort Digisystem Microphone. See the picture to the right.



2. Preparing the Sound processor

Ensure that the processor is programmed with the following settings for the intended programme used with the Receiver DT10:

- a. Mixing Ratio = 1:1
- b. Auto Telecoil = Off
- c. SmartSound Environment = ASC+ADRO (Use default Everyday Environment setting the default sensitivity setting of 12).

3. Connecting the Receiver DT10 to Cochlear Nucleus® 810 Ver. C

- a. Insert the Receiver DT10 into the Euro Accessory Adaptor. Insert the Euro Accessory Adaptor into the sound processor's accessory socket while the sound processor is still switched on.
- b. CP810 will automatically detect the Receiver DT10 and the Receiver DT10 switches on after a few seconds.
- c. Perform a functional listening evaluation as follows:
 - Turn off the Receiver DT10. Conduct a listening test in quiet, at a Speaker-to-Listener distance of 1 metre.
 - Turn on the Receiver DT10. Using the Remote Assistant CR110 change the Mixing Ratio to 6:0. Repeat the same listening test in quiet, at a Speaker-to-Listener distance of several metres this time.
 - The user's speech recognition performance should be almost the same in the both cases.
 - If not, use the Programmer DT05 to optimize the output level of the Receiver DT10 until almost the same performance is obtained.
 - Note: A mixing ratio of 1:1 is recommended for a good compromise between the DT10 input and the sound processor microphone input in quiet. A mixing ratio of 2:1 or 3:1 can give a good speech recognition performance in noise.