How to set speaker distances to the listening position in SA Cockpit

Correct distance setup is an important adjustment in your system.

If speakers are placed at different distances from your listening position, the sound reaches your ears at different times – which affects the stereo image, bass performance, and overall sense of precision.

With SA Cockpit, you can time-align each channel so sound from all speakers reaches you at the same moment.

How to do it:

1. Measure the distances correctly

Start by measuring the distance from each individual speaker to your preferred listening position.

How to measure correctly:

- Measure from the front of the speaker (the front baffle)
- Measure to the front edge of the sofa or chair where you sit
- Measure all speakers in the system – including rear speakers, center speaker, and any side channels
- If you have a subwoofer, measure the distance to that as well

Write the distances down – you'll need them shortly.

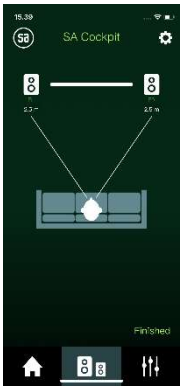
2. Enter the distances in SA Cockpit

Once you have the measurements, enter them into the app. It only takes a moment.

Follow this:

1. Open SA Cockpit
2. Select your hub (Stereo Hub, Stereo Hub HT or Surround Hub)
3. Tap the speaker icon at the bottom center
4. Tap **"Channel distances"**
5. Tap the speaker icons one by one
6. Set the correct distance for each channel
7. Save the changes

The system will now automatically adjust the timing, so all speakers play perfectly aligned and precisely in your listening position.



3. What you gain from correct distance adjustment

- Vocals are placed precisely and stably in the center
- The soundstage opens and becomes more realistic
- Bass becomes tighter and better integrated
- Surround effects are clearer and more precise
- Music sounds more natural and relaxed

Even differences of just a few centimeters can be heard – which is why this setting is important.

Playlist: Electronic music to test precision and timing

Link to playlist on Spotify
Link to playlist on Tidal

Here is a playlist of 10 electronic tracks (including atmospheric tracks with a large sense of space) that are perfect for hearing the difference before and after distance adjustment.

1. **Trentemøller – "Take Me Into Your Skin"**
   Listen for: depth of space, wide panning, smooth transients in the large soundscape.
2. **Jon Hopkins – "Emerald Rush"**
   Listen for: precise timing in the pulsing layers, tight bass, and clear focus.
3. **Moderat – "Bad Kingdom"**
   Listen for: vocal placement in the room and how the synth layers unfold.
4. **Nils Frahm – "Says"**
   Listen for: the build-up from quiet to massive – timing and balance between channels.
5. **Kiasmos – "Looped"**
   Listen for: tight kick drum control and whether the soundstage feels symmetrical.
6. **Bicep – "Opal (Four Tet Remix)"**
   Listen for: rhythmic shifts and whether the vocals are cleanly centered.
7. **Autechre – "Eutow"**
   Listen for: extreme timing precision – distance errors are revealed clearly here.
8. **Christian Löffler – "Haul"**
   Listen for: deep atmosphere, soft beats, and a wide stereo effect.
9. **Burial – "Archangel"**
   Listen for: placement of the ghostly vocal snippets and deep sub-bass.