

## Self Check

The Self Check feature is available on all of the AXIO™ iM32 styles. This integrated, diagnostic tool quickly evaluates the integrity of the hearing aid microphone(s), circuit and receiver without external equipment.

### Setting the Baseline

A **Baseline** measurement of the hearing aid performance must be obtained using Inspire® 2010 software. The baseline should always be run when the hearing aid is assumed to be performing optimally, either as a new instrument or when it is received after a repair. During the baseline, a sound is produced by the hearing instrument and measured by the hearing aid microphone that establishes the reference level against which subsequent diagnostic measurements are compared. Self Check can be accessed in the software during Auto Path, on the Quick Fit, Features or Data Log screen.

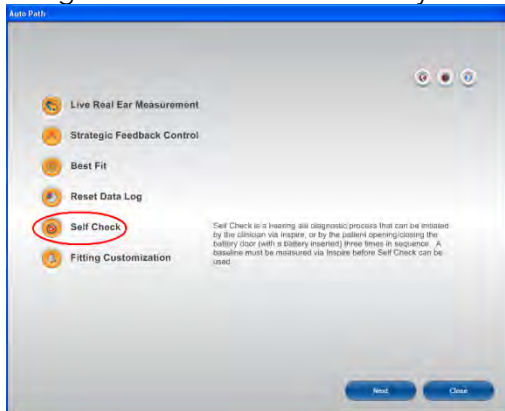
Step 1: Correctly position the device in the patient's ear.


Step 2: Ensure the room is quiet.

Step 3: Instruct the patient that they will be hearing a loud, complex test signal, but they will need to remain quiet until the measurement is completed.

Step 4: Set the Baseline.

Using **Auto Path** - Baseline may be automatically established through the Auto Path routine.



From **Quick Fit, Features, or Data Log**, click on the Self Check  icon, followed by **Set Baseline**, and **Begin**.



### Running the Diagnostic

The Self Check Diagnostic compares the current performance of the microphone(s), circuit, and receiver to the original baseline to determine if the components are within tolerance.

There are two protocols. The Professional-Initiated Diagnostic provides a visual display of performance within Inspire 2010. The User-Initiated Diagnostic provides an audible indicator of performance through the device when it is positioned in the patient's ear.

### Professional- Initiated Diagnostic

Step 1: Correctly position the device in the patient's ear.

Step 2: Ensure the room is quiet.

Step 3: Instruct the patient that they will be hearing a loud, complex test signal, but they will need to remain quiet until the measurement is completed.

Step 4: Run the Diagnostic.

From **Quick Fit** or **Features** - Click on the Self Check  icon, followed by **Run Diagnostic**, and **Begin**.



Step 5: Evaluate the results.



**Green:** Performing to baseline.

**Yellow:** Check for debris; clean and check the device, then run the diagnostic again.

**Red:** Repair recommended.

## User-Initiated Diagnostic

The User-Initiated Diagnostic can be enabled/disabled within the **Self Check** window. A check in the box next to **Disable User-Initiated Self Check** means the patient cannot access this feature. It is **unchecked** by default.



Counsel the patient that they have a diagnostic tool on their hearing aid and that they should follow these steps:

Step 1: Ensure the room is quiet.

Step 2: Ensure device is on for at least 3-4 seconds prior to running the measurement.

Step 3: Open and close the battery door. Wait another 3-4 seconds once the battery door is closed.

Step 4: Open and close the battery door. Wait another 3-4 seconds once the battery door is closed.

Step 5: Open and close the battery door.

Step 6: Correctly position the device in the ear.

Step 7: The status indicator will be presented 10 seconds after the programmed Power-On Delay.

## Status Indicators

If the hearing aid is programmed with Tonal indicators:

- |                          |   |
|--------------------------|---|
| Low – High Tone Sequence | Hearing aid is performing to baseline                             |
| High – Low Tone Sequence | The patient should make an appointment to have the device checked |

If the hearing aid is programmed with Voice indicators:

- |                  |   |
|------------------|---|
| Good             | Hearing aid is performing to baseline                             |
| Make Appointment | The patient should make an appointment to have the device checked |

A test presentation of the indicators can be presented from the Indicators screen to familiarize the patient.

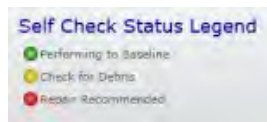
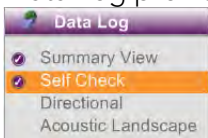
*Tip: It is important to note that the User-Initiated Diagnostic is not for all patients. Limited manual dexterity or cognition are some scenarios in which this particular feature might be disabled.*

## Self Check Results

- If the diagnostic level matches the baseline level, the receiver and microphone will both ‘pass.’
- If the diagnostic level is lower than the baseline, the problem could be with either the microphone or the receiver. At this point, Self Check looks up the microphone ‘history’ on the hearing aid. The input levels to the microphone are constantly being monitored and stored. If the recent microphone history shows extremely low input levels, then the failure or blockage is statistically more likely to be with the microphone. If the recent microphone history shows ‘normal’ input levels, then the failure or blockage is more likely to be with the receiver.
- The circuit ‘integrity’ involves the writing and reading back of information to the hearing aid memory. It’s not part of the acoustic test. If the information that is read back matches the information that was written, the circuit passes. If the information that is read back does not match the information that was written, or if the read/write process doesn’t work, the circuit will fail.

## Reviewing Diagnostic Results from Data Log

Data Log provides the following information when Self Check is selected from the Summary View menu:

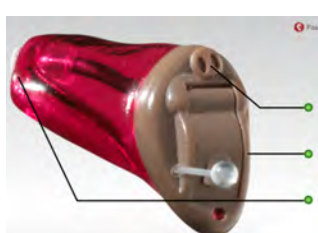


- Number of user-initiated diagnostic measurements attempted
- Results for the last Self Check completed (either Pass or Fail)
- Graphical display of the hearing aid model with colored results and arrows pointing to each component

### Self Check (RIC)



### Self Check (Custom)



### Self Check (BTE)

