

Welch Allyn OAE Hearing Screener

System Setup

1. Connect the probe cable to the top of the OAE Hearing Screener box.
2. Align the pins in the end of the cable with the holes in the jack.
 - The arrow on the connector shows the correct orientation of the probe connector to the OAE Hearing Screener.
3. Select appropriate ear tip.
4. Slide probe tip all the way onto the probe body.
 - Verify that no hard surfaces are exposed at the end of the ear tip that will be inserted into the ear canal.
 - The tips are designed to extend beyond the plastic tip by approximately 1/16th inch.
 - Dispose of probe tip after each patient.

Data Collection

1. Press the **ON** button on the OAE Hearing Screener.
2. When the Welch Allyn DPOAE software message appears in the display area:
 - Press the **DX SELECT** button to continue.
3. When message “**PERFORM DPOAE**” appears in the display area:
 - Press **DX SELECT** to initiate test.
4. When message “**TEST R EAR**” appears in the display area:
 - Record unique test number assigned to the test, if necessary.
5. If the ear to be tested is the left ear:
 - Press the **DOWN** arrow to display the message “**TEST L EAR.**”
6. When the correct ear is displayed:
 - Press the **DX SELECT** button to initiate the automated check fit, calibration and test.
 - Test continues until completion.
 - When the test is complete, the test number and “**PASS**” or “**REFER**” result appears on the display along with the message “**SEE DETAILS.**”
7. To see test results for individual frequencies: Press **DX SELECT**.
8. Use the **DOWN** and **UP** arrows to move through the test frequencies.
9. To print test results, use the **UP** or **DOWN** arrow until “**PRINT**” appears on the display. Press **DX SELECT** to print.

Data Review

1. Press the **ON** button on the OAE Hearing Screener.
2. When the Welch Allyn DPOAE software message appears in the display area:
 - Press the **DX SELECT** button to continue.
3. When message “**PERFORM DPOAE**” appears in the display area:
 - Press **DOWN** arrow:
 - The message changes to “**VIEW DPOAE RESULTS.**” Press **DX SELECT**.
 - The last test performed appears on the display.
4. Use the **UP** and **DOWN** arrow buttons to move through the tests that are stored in the OAE Hearing Screener memory.
5. When the desired test number appears on the display:
 - Press the **DX SELECT** button to review the details of this test.
6. To print the results or view another test:
7. Press the **DX SELECT** button.
8. Use the **UP** and **DOWN** arrows to move through the tests that are stored in the OAE Hearing Screener memory.

Testing Hints for Newborns

1. Do not screen patient more than three times per ear. Overscreening can result in a false negative result.
2. Swaddle baby and position on side for best access to ear.
3. Test at least 11 hours after birth, if possible, to prevent false positives due to vernix.
4. If infant fails, re-test at least one more time before discharge.
5. If one ear fails, try to have baby lay so that the failed ear is facing up for a while to clear vernix before retesting.
6. If infant is fussy or crying, offer pacifier.
7. OK to test while infant is nursing.



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Troubleshooting the Probe (29402 Semidisposable probe only)

Error Messages/Problem

Probe in Ear? Refit and Retry Or Occluded Probe	<ol style="list-style-type: none"> 1. Clean probe and make sure ear tip is properly placed. 2. Verify secure connections of all cables. 3. Verify that no pins are bent or broken on the probe cable connector. 4. Verify that there is no damage to probe connection on OAE Hearing Screener box. 5. Reconnect probe cable into OAE Hearing Screener box.
Empty Database	<ol style="list-style-type: none"> 1. When a new software version is uploaded from a computer to OAE Hearing Screener, the database of tests is erased from memory.
Reset Date/Time	<ol style="list-style-type: none"> 1. Use WA OAE Load program.
Memory Error Reload Software or No Loader Reload Software or Error 000##	<ol style="list-style-type: none"> 1. Detach printer cable or USB cable. 2. Allow OAE Hearing Screener to power down. Then press ON button and initiate internal software installation. 3. If the above does not work, use WA OAE Load program to reinstall software.
Turn Printer On Try Again	<ol style="list-style-type: none"> 1. Verify that printer power is on. 2. Verify secure cable connection from printer to OAE Hearing Screener. 3. Reload paper in printer, if needed.
Printer Skipping Labels	<ol style="list-style-type: none"> 1. Reload paper in printer.

Using the Test Cavity

1. Place a Tree Tip on the probe.
2. Insert the probe securely into the test cavity.
3. Perform test on OAE Hearing Screener as usual.
4. Test results should show a "REFER."
5. If error messages are obtained, follow the troubleshooting suggestions above.
6. A "PASS" result may be observed at individual test frequencies in a DPOAE test due to the resonance properties of a hard-walled cavity. But the overall test result should be a "REFER."