

NODMAL TECT

Deciphering Your OTO-CHEK Print Out

The OTO-CHEK is used as a bio-simulator(it simulates a patient taking a test).

The print out that you get out at the end of the test is used to compare to the base line of the unit.

The base line of the OTO-CHEK is either the first test that you ran after setting up your unit, or the first Test ran on your OTO-CHEK after it has been calibrated. When ever your audiometer used with the OTO-CHEK is calibrated a new base line should be generated, and will take the place of the old one.

The Print out of a 2500 (typically used with the OTO-CHEK) will list the following information

OTO CHEK TECT

NORMAL TEST			OTO-CHEK TEST			
AMBCO 2500 SERIAL# 2500 CALIBRATION DATE 01/01/96 BY: AMBCO CALIBRATION DUE DATE 01/01/97			AMBCO 2500 SERIAL# 2500 CALIBRATION DATE 01/01/96 BY: AMBCO CALIBRATION DUE DATE 01/01/97			
		1/96 TIME 08:00	TEST :000		TIME 08:00	
SS# 000000000	10	B ID: A018	OTO-CHEK# 01	JOB ID: A018		
PATIENT			PATIENT			
FREQUENCY	LEFT	RIGHT	FREQUENCY	LEFT	RIGHT	
1000 VALIDITY		55	1000 VALIDITY		55	
500 HZ	60	60	250 HZ	60	60	
1000 HZ	60	55	500 HZ	60	55	
2000 HZ	55	55	750 HZ	55	55	
3000 HZ	55	60	1000 HZ	55	60	
4000 HZ	55	50	1500 HZ	55	50	
6000 HZ	60	55	2000 HZ	60	55	
8000 HZ	55	65	3000 HZ	55	65	
			4000 HZ	55	55	
			6000 HZ	55	60	
			8000 HZ	60	70	

The two test shown above are tests that are generated from a 2500 audiometer

If you look closely you will see that there are numbers for left and right. Just like the human ear a microphone will have different numbers from one another sometimes this is ok as you can see On the OTO-CHEK TEST at 8000 HZ left is 60db and right is 70db this is fine for them to differ from one another, since there are two microphones used in each OTO-CHEK.



COMPARIING TEST RESULTS

Lets use the NORMAL TEST above as the base line, when you run your daily test you will be get a print out similar to the one above. You will compare the numbers on the daily test to the base line.

If all numbers are within \pm 5db then you are good to go. You can use this as an example, at 8000 HZ on the left side the base line is 55db and the right side is 65(shown above), the daily test that you just ran show 60db on the left side and 60db on the right side.

BASE LINE			DAILY TEST		
FREQUENCY	LEFT	RIGHT	FREQUENCY	LEFT	RIGHT
8000 HZ	55	65	8000HZ	60	60

In order to find out what the variance is you would take the BASE LINE'S number left side of 55db and subtract the DAILY TEST'S left side of 60db (55-60 = -5) you will get a -5db which meets the ± 5 db variance. Same goes for the right side (65-60 = 5) you will get a 5db difference.

What you are looking for is ± 10 db variance. You can use this as an example, at 8000 HZ on the left side the base line is 55db and the right side is 65(shown above), the daily test that you just ran show 60db on the left side and 60db on the right side.

BASE LINE			DAILY TEST			
FREQUENCY	LEFT	RIGHT	FREQUENCY	LEFT	RIGHT	
8000 HZ	55	65	8000HZ	60	80	

In order to find out what the variance is you would take the BASE LINE'S number left side of 55db and subtract the DAILY TEST'S left side of 60db (55-60 = -5) you will get a -5db which meets the \pm 5 db variance. But the right side (65-80=-15) you will get a -15db difference this is what you are looking for as a bad result.

When you see the above happen (varies in freq, but the db level of difference that your looking for is ± 10 db), there may be an issue with the audiometer, OTO-CHEK, connections or even how the headset is placed on the OTO-CHEK.

Also the above method can be used in calculating patient hearing shift levels.