Audiobahn Box Specifications

All ports listed are circle ports unless otherwise stated. Surface area of a circle port = (3.14) X (radius) (squared)

Remember to build your box to the total volume, not just air space, as total volume includes all displacement.

Model #	AW102T	AW122T	AW152T		

Space Saver Bass Design

Ported					
Air Space (Cu. Ft.)	0.625	1.3	1.65		
Port Size (Inches)	2 x 6.75	3 x 7.75	4 x 10		
Port Vel. (%)	31.5	21	21.25		
-3dB (Hz)	36.5	35	38		
Tune Freq. (Hz)	40	38	40		
Sub Disp. (Cu. Ft.)	0.1	0.15	0.23		
Port Disp.(Cu. Ft.)	0.011	0.028	0.066		
Total Vol. (Cu. Ft.)	0.75	1.5	2		

Everyday Bass Performer

Ported					
Air Space (Cu. Ft.)	1.3	2.25	2.65		
Port Size (Inches)	3 x 8.0	4 x 8.5	(2) 3 x 8		
Port Vel. (%)	15	12.5	17		
-3dB (Hz)	30.5	30	31		
Tune Freq. (Hz)	37	37	36		
Sub Disp. (Cu. Ft.)	0.1	0.15	0.23		
Port Disp.(Cu. Ft.)	0.029	0.055	0.058		
Total Vol. (Cu. Ft.)	1.5	2.5	3		

Ultimate SPL Bass Box (Not Designed for Competition)

Ported					
Air Space (Cu. Ft.)	2.33	3.2	3.7		
Port Size (Inches)	4 x 8	(2) 4 x 10.5	(2) 4 x 9.5		
Port Vel. (%)	8.75	6.5	10		
-3dB (Hz)	29.5	29	29		
Tune Freq. (Hz)	36	38	37		
Sub Disp. (Cu. Ft.)	0.1	0.15	0.23		
Port Disp.(Cu. Ft.)	0.053	0.141	0.128		
Total Vol. (Cu. Ft.)	2.5	3.5	4		

A port velocity of 20% or under is good for everday use and 5% or under for SPL competition . Port velocity translates to port noise, so the lower the number, the less port noise you will incur.

An EBP of less then 45 is SUGGESTED for only a sealed box and greater then 65 for a ported box.					
EBP	61	49	99		

The larger a sealed box is, the lower the sub will play, but the less power it will handle. The smaller a sealed box is, the higher the frequency the sub will play, and the more power it will handle.

Model #					
Sealed					
Minimum (Cu. Ft.)	0.5	0.75	1.25		
Maximum (Cu. Ft.)	1.25	2	3.25		
SPL (dB)	85	88	88.5		

All sealed boxes already include the displacement for the subwoofer. NR = (Not Recommended)

Revised March 12, 2004