

A D G

AUTOMOTIVE PRO LINE CABINET SPECIFICATION LIST VENTED BOX DESIGNS

The following enclosure specifications are suggested tuned volumes. By use of the Thiel - Small parameters it is possible to calculate alternative tuned box sizes in order to allow for special installation where space is a consideration.

- These are all SINGLE speaker cabinets.
- All dimensions are in imperial inch measures ("). Volumes are in cubic feet.
- Fill is based on R19 Fiberglass insulation with density of 1.5 Lb/ft³.
- Fill is 10% unless otherwise stated.
- For best results use 3/4" MDF board minimum.
- All box dimensions are internal.

Terms used in these charts:

Fb - Enclosure tuned frequency (Hz.).

F3 - 3 dB. down point for frequency of completed cabinet(Hz.).

Speaker Model	Enclosure Volume cubic feet	Box Dimensions			Fb Hz.	Port			No. Port	Port Location	F3 Hz.	Fill %
		Depth	Width	Height		Diam	Area	Length				
PRO8W	0.20	4.25	9.0	9.0	80	2	3.14	4.63	1	side	90	
8 OHM	0.27	4.62	10.0	10.0	60	2	3.14	6.63	1	side	60	
BASS	0.35	5.00	11.0	11.0	54	2	3.14	6.25	1	side	55	
PRO8	0.27	4.62	10.0	10.0	60	2	3.14	6.63	1	side	56	
8 OHM	0.30	4.25	11.0	11.0	55	2	3.14	7.25	1	side	51	
SUBWOOF	0.35	3.50	12.0	12.0	45	2	3.14	9.75	1	side	45	
	1.00	12.8	9.0	15.0	25.5	2	3.14	10.00	1	front	27	30
PRO8-4	0.35	3.50	12.0	12.0	45	2	3.14	9.75	1	side	45	
4 OHM	0.45	4.62	13.0	13.0	40	2	3.14	9.625	1	side	40	
SUBWOOF	0.50	4.75	13.5	13.5	36	2	3.14	10.875	1	side	38	
	1.00	12.80	9.00	15.00	25.5	2	3.14	10.00	1	front	27	30
COMP8	0.35	4.5	9	15	32	1.5	1.7	9 5/8	1	end	45	30
8 OHM	0.45	7 7/8	9	11	30	2	3.14	15 1/2	1	folded port	40	30
SUBWOOFER STEEL HOUSING	0.6	10 1/2	9	11	30	2	3.14	11 1/8	1	folded port	35	30

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Speaker Model	Enclosure Volume	Box Dimensions			Fb Hz.	Port			No. Port	Port Location	F3 Hz.	Fill %
		Depth	Width	Height		Diam	Area	Length				
PRO10W	0.5	7.0625	11	11	54	3	7	8.25	1	Side	80	50
8 OHM	0.75	8.75	11	13.5	50	3	7	5.875	1	Front	65	50
BASS	1.0	9.6	11	15	50	4	12.57	7.875	1	Front	55	50
PRO10	0.45	5.0	12.5	12.5	50	2	3.14	5.50	1	side	58	
8 OHM	0.5	5.5	12.5	12.5	50	2	3.14	4.79	1	side	55	
SUBWOOF	0.6	6.625	12.5	12.5	45	2	3.14	5.00	1	back, side	50	
	1.500	11.00	13.50	17.5	25	2	3.14	7.00	1	front	25	
PRO10-4	0.75	7.88	11.0	15.0	40	2	3.14	5.00	1	top, side	42	
4 OHM	1.00	8.50	12.0	17.0	38	2	3.14	4.00	1	front	38	
SUBWOOF	1.20	9.50	12.5	17.5	32	2	3.14	4.88	1	front	32	
	1.50	11.00	13.5	17.5	30	2	3.14	4.375	1	front	30	
PRO10iW	.84	8.50	11.0	15.5	40	2	3.14	4.38	1	front	40	
8 OHM	1.00	8.50	12.0	17.0	38	2	3.14	4.00	1	front	37	
BASS	1.50	11.38	12.0	19.0	32	3	7.0	9.25	1	front	32	
PRO10i	1.00	10.43	11.0	15.0	32.0	2	3.14	6.63	1	front	31	30
8 OHM	1.50	12.43	12.0	17.0	25	2	3.14	7.00	1	front	25	
SUBWOOF	2.00	11.00	15.0	21.0	25	2	3.14	7.88	1	front	25	
PRO10i-4	1.00	10.43	11.0	15.0	30	2	3.14	6.63	1	front	31	30
4 OHM	1.5	12.43	12.0	17.0	25	2	3.14	7.00	1	front	26	
SUBWOOF	2.0	11.00	15.0	21.0	25	2	3.14	4.88	1	front	27	
COMP10	0.80	7.63	11.0	16.0	70	4	12.6	5.00	1	front	75	
8 OHM	1.0	8.50	12.0	17.0	63.6	4	12.6	4.63	1	front	65	
SUBWOOF	1.25	8.75	13.0	19.0	58.0	4	12.6	5.25	1	front	55	
COMP10-4	0.77	7.75	11.0	15.5	44	2	3.14	3.75	1	front	55	
4 OHM	1.00	9.25	11.0	17.0	42	3	7.0	7.75	1	front	52	
SUBWOOF	1.24	9.13	12.0	19.5	38.5	3	7.0	7.38	1	front	40	

Speaker Model	Enclosure Volume	Box Dimensions			Fb Hz.	Port			No. Port	Port Location	F3 Hz.	Fill %
		Depth	Width	Height		Diam	Area	Length				
PRO12W	1.25	8.75	13.0	19.0	55	4	12.6	5.25	1	front	70	
8 OHM	2.0	10.75	15.0	21.0	46	4	12.6	4.25	1	front	61	
BASS	2.7	11.88	15.5	25.5	42	4	12.6	3.44	1	front	50	
PRO12	1.25	8.75	13.0	19.0	47	3	7.0	4.0	1	front	52	
8 OHM	2.00	10.75	15.0	21.0	41	4	12.56	6.00	1	front	44	
SUBWOOF	2.7	11.88	15.5	25.5	37	4	12.56	5.44	1	front	35	
PRO12-4	0.75	7.875	11.0	15.0	40	2	3.14	5.0	1	top, side	42	
4 OHM	1.00	8.5	12.0	17.0	38	2	3.14	4.0	1	front	38	
SUBWOOF	1.2	9.5	12.5	17.5	32	2	3.14	4.875	1	front	32	
PRO12IW	1.75	10.38	15.0	19.50	44	4	12.5	6.19	1	front	60	
8 OHM	2.25	11.50	16.0	23.00	43	4	12.5	3.75	1	front	60	
BASS	2.70	11.88	15.50	25.50	33	4	12.5	7.63	1	front	48	
PRO12X	1.5	10.50	13.0	19.0	32	3	7.0	9.25	1	front	33	
8 OHM	2.0	14.13	13.50	18.0	25	3	7	12.0	1	top	25	
SUBWOOF	2.7	11.88	15.50	25.5	25	4	12.5	15.88	1	top	25	
PRO12X-4	1.5	10.50	13.0	19.0	32	3	7.0	9.25	1	top	38	
4 OHM	2.0	14.25	13.50	18.0	30	3	7.0	7.63	1	front	32	
SUBWOOF	2.5	16.44	15.0	17.5	27	4	12.5	14.38	1	front	27	
COMP12IW	1.5	9.75	14.0	19.0	41	3	7	4.63	1	front	58	
8 OHM	2.0	10.75	15.0	21.0	41	4	12.56	6.25	1	front	48	
BASS	2.7	11.88	15.5	25.5	42	4	12.56	3.44	1	front	40	
COMP12IW-4	FUTURE											
4 OHM												
BASS												

Speaker Model	Enclosure Volume	Box Dimensions			Fb Hz.	Port			No. Port	Port Location	F3 Hz.	Fill %
		Depth	Width	Height		Diam	Area	Length				
PRO15W	FUTURE											
8 OHM												
BASS												
PRO15	FUTURE											
8 OHM												
SUBWOOF												
PRO15-4	FUTURE											
4 OHM												
SUBWOOF												
PRO15X	2.5	12.5	16	21.5	40	4	12.57	10.68	2	Front	35	
8 OHM	3.5	16.44	16	23	32	4	12.57	14.68	2	Front	30	
SUBWOOF	5.0	17.5	18	27.5	27	4	12.57	14	2	Front	27	
PRO15X-4	FUTURE											
4 OHM												
SUBWOOF												
COMP15IW	3	13	17.25	23	40	4	2	10	1		36	
8 OHM	2.5	13	16.5	20	40	4	2	10.25	1		50	
BASS	5	13	22.5	29.5	35	4	2	6.7	1		45	
COMP15IW-4	FUTURE											
4 OHM												
BASS												

Speaker Model	Enclosure Volume	Box Dimensions			Fb Hz.	Port			No. Port	Port Location	F3 Hz.	Fill %
		Depth	Width	Height		Diam	Area	Length				
PRO18X	FUTURE											
8 OHM												
SUBWOOFER												
PRO18X-4	FUTURE											
4 OHM												
SUBWOOFER												

Speaker Model	Enclosure Volume	Box dimensions			Fb Hz.	Port			No. Port	Port Location	F3 Hz.	Fill %
		Depth	Width	Height		Diam	Area	Length				

Conditions:

These enclosure designs are computer generated, and may not necessarily do what you want the finished product to perform like. Since there are many variables when installing speakers in an automobile, with or without enclosures, we are only making suggestions at this point. After the box has been built, make sure that the speaker is NOT overexcursioning, as this is the fastest way of wearing the speaker out prematurely. A.D.G.(Acoustic Design Group Inc.) will not be responsible for any problems, or damage that may arise from the use of these box parameters. Use common sense when installing any product, and if you are not sure, call A.D.G..