

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 | | | | | | | | | | | | |
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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..