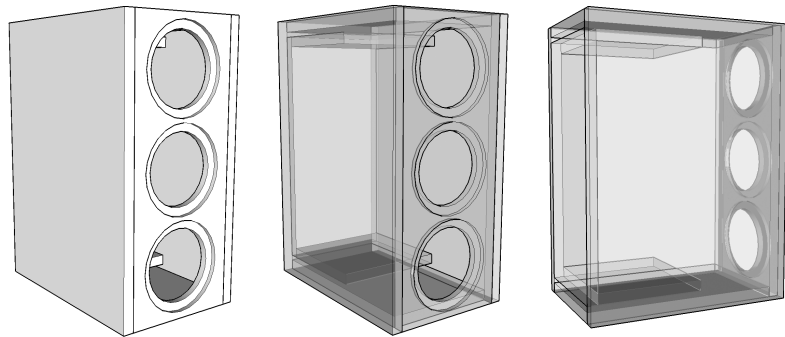




markaudio
New Audio Fidelity

CHR Triple Left/Centre/Right

for Mark Audio CHR-70.3

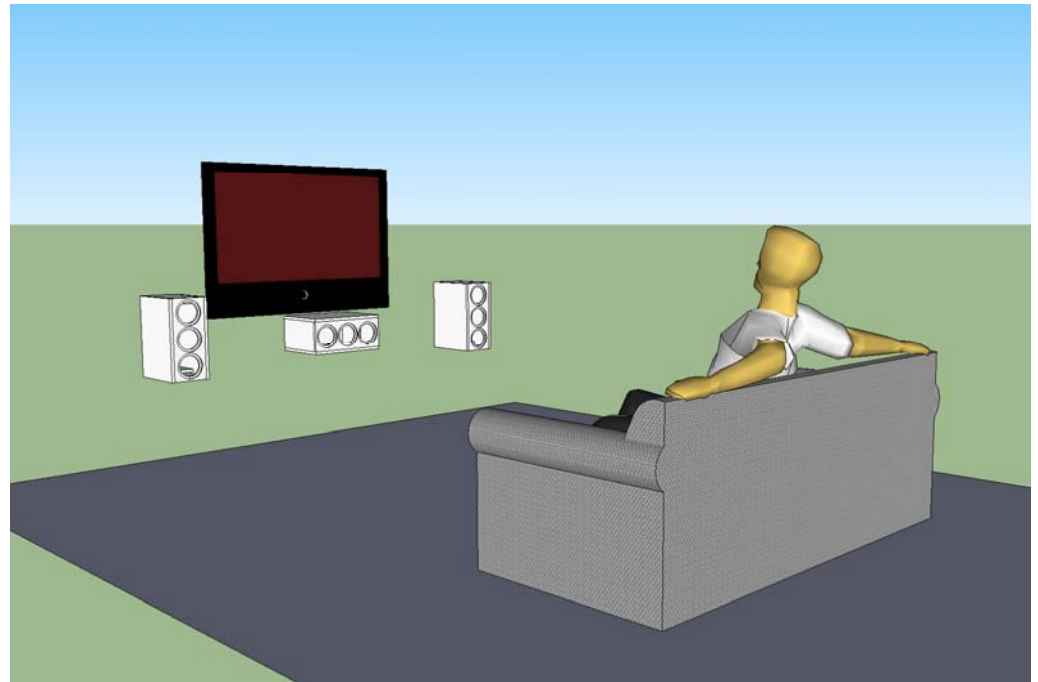


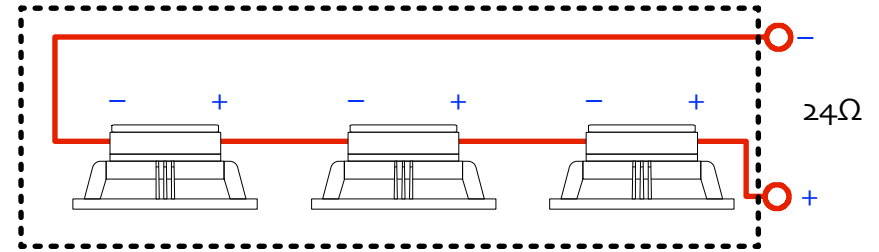
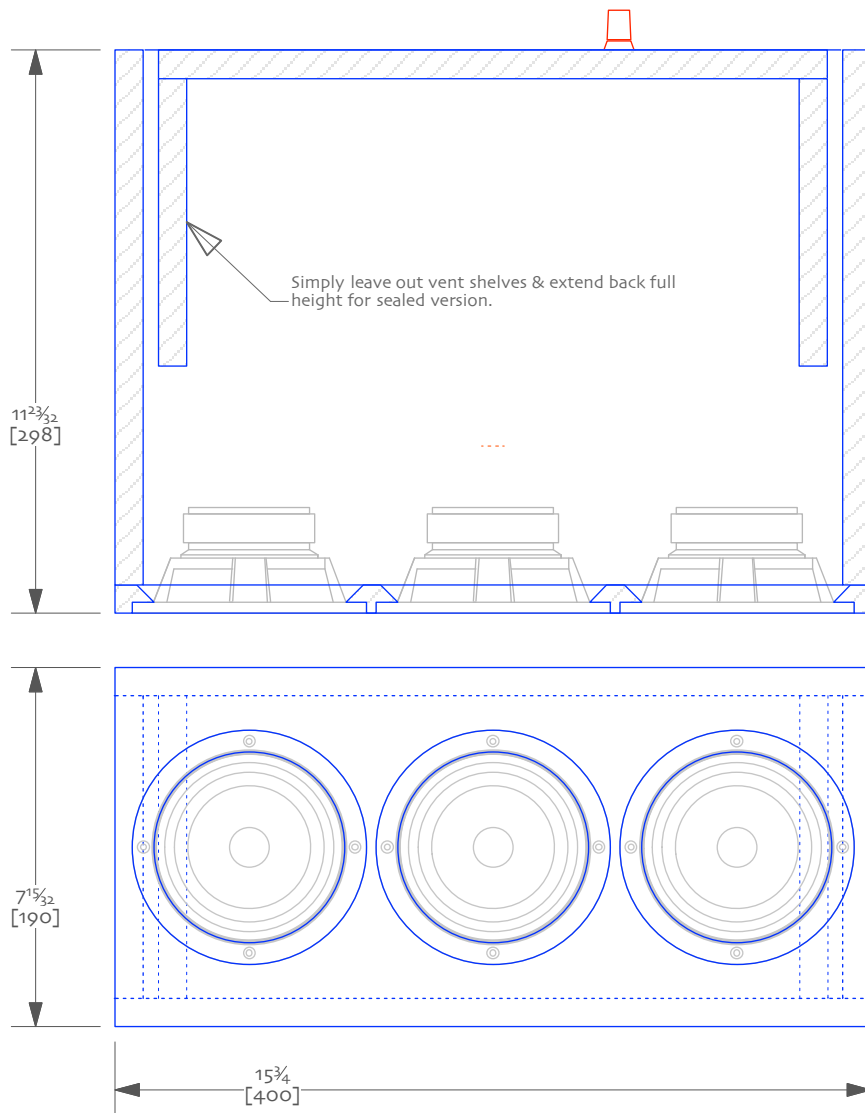
This is the 3-driver module borrowed from The CHR Array using the Mark Audio CHR-70 Generation 3 driver. Use vertically for Left and Right, vertically or horizontally for centre.

A number of wiring arrangements allow some versatility.

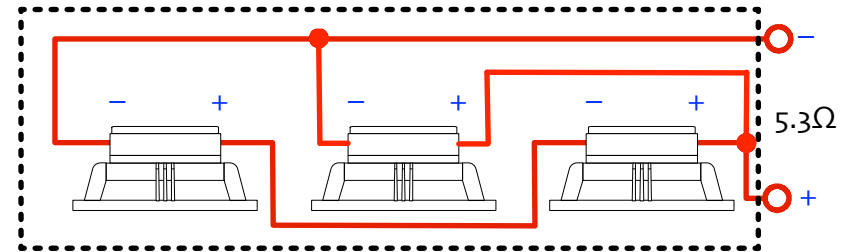
Notes:

- 1/ Round over or chamfer on vertical edges recommended.
- 2/ 4 modules can be cut from a 5x5 sheet, 5 out of a 4x8 sheet (see The CHR Array for detail)
- 3/ If sealed will work with any generation CHR70

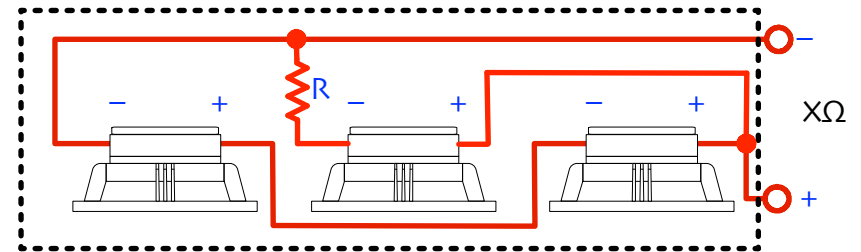




All drivers wired in series, as in a mains module, for an impedance of 24Ω . Most modern HT receivers will have sufficient power despite a reduction in power to $1/3$ the rated power into 8Ω . Note that distortion will also decrease.



Recommended: Outer drivers wired in series, these wired in parallel with the centre driver for an impedance of 5.3Ω . This will create a tapered array with the centre driver having 3dB greater output than the end drivers.



This is a variation of the scheme above (above $R=0$). With $R=8\Omega$ there is no power tapering and the outer drivers will have the same output as the centre driver (net impedance of the module is 8Ω). The resistor will need to be able to handle $1/4$ the power input. Decreasing the resistor value from 8Ω will increase the power tapering until maximum is reached when $R=0$ (as above)

Notes:

- o/ A standard module can be used as a centre channel, the usual arrangement is to orient it horizontally.
- 1/ 3 options for wiring are shown, see diagram & comments above
- 2/ a horizontal array is not the best arrangement for a centre channel, introducing power tapering as in the middle arrangements helps to ameliorate the problems at the trade-off of maximum achievable levels



The CHR Triple | CHR-70.3

07-september-2011 drawn by dld
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