

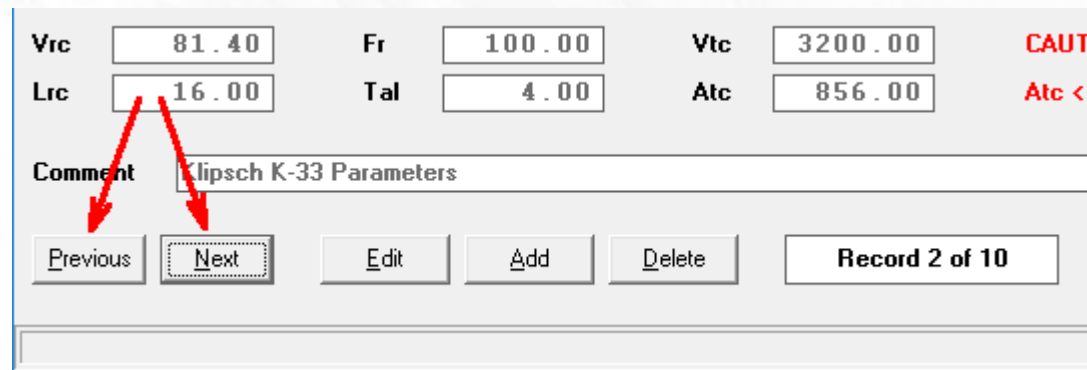
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HornResp Help File

Exporting Data

Use the Previous or Next button to select a particular record



A screenshot of a data entry form. At the top, there are six input fields arranged in two rows of three. The first row contains 'Vrc' (81.40), 'Fr' (100.00), and 'Vtc' (3200.00). The second row contains 'Lrc' (16.00), 'Tal' (4.00), and 'Atc' (856.00). To the right of these fields, the text 'CAUTION' is partially visible in red. Below the input fields is a 'Comment' field containing the text 'Klipsch K-33 Parameters'. At the bottom of the form, there are five buttons: 'Previous', 'Next', 'Edit', 'Add', and 'Delete'. The 'Next' button is highlighted with a red dashed border. Two red arrows point from the 'Lrc' and 'Tal' input fields to the 'Previous' and 'Next' buttons respectively. To the right of the buttons, a label reads 'Record 2 of 10'.

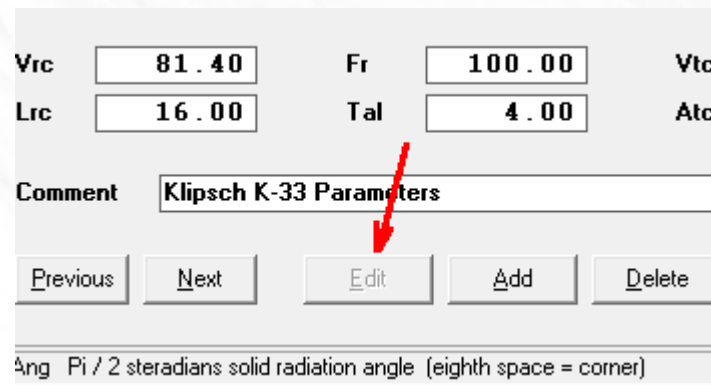
Vrc	81.40	Fr	100.00	Vtc	3200.00
Lrc	16.00	Tal	4.00	Atc	856.00

Comment: Klipsch K-33 Parameters

Buttons: Previous, Next, Edit, Add, Delete

Record 2 of 10

Click the Edit button



A screenshot of the same data entry form as above, but with a red arrow pointing to the 'Edit' button. The 'Edit' button is now highlighted with a red dashed border. The 'Next' button is no longer highlighted. The rest of the form, including the input fields and the 'Comment' field, remains the same.

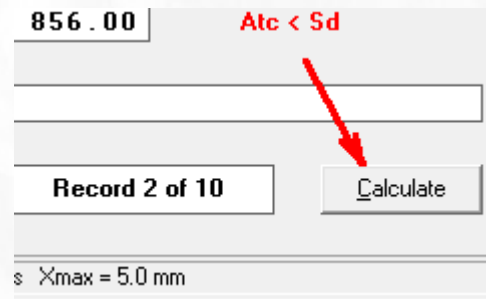
Vrc	81.40	Fr	100.00	Vtc	
Lrc	16.00	Tal	4.00	Atc	

Comment: Klipsch K-33 Parameters

Buttons: Previous, Next, Edit, Add, Delete

Ang Pi / 2 steradians solid radiation angle (eighth space = corner)

Click the Calculate button.



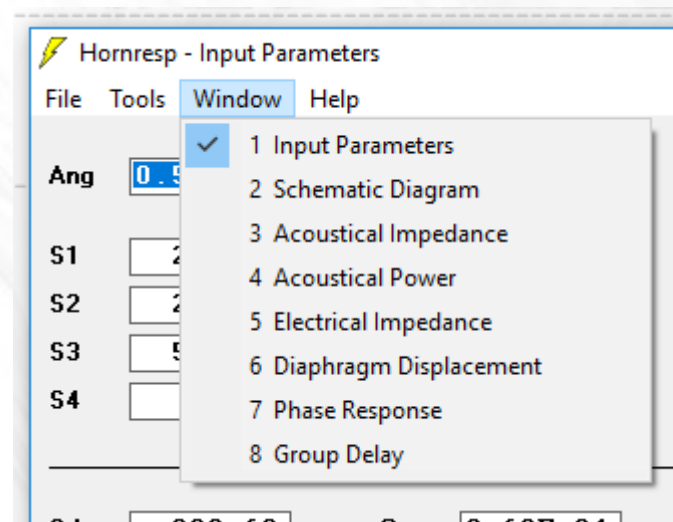
856.00 $Atc < Sd$

Record 2 of 10

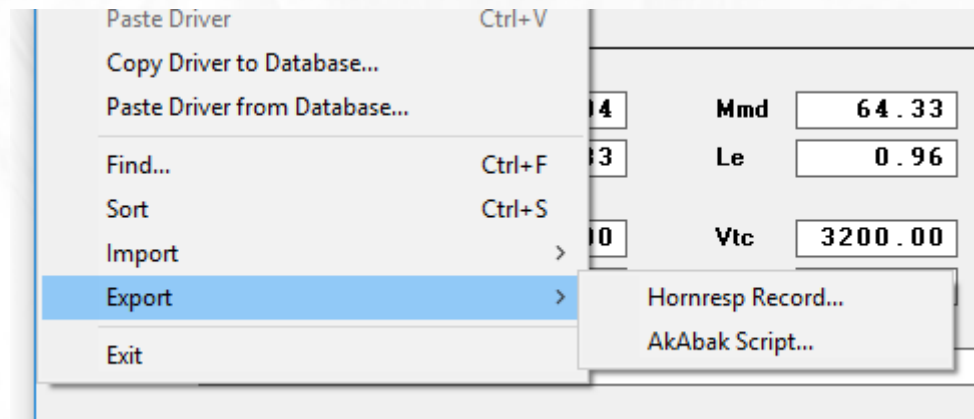
Calculate

\$ Xmax = 5.0 mm

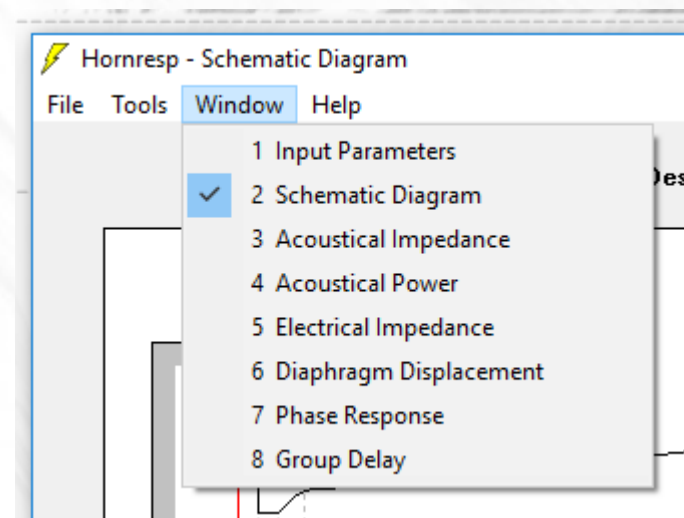
Now select one of the eight items listed below



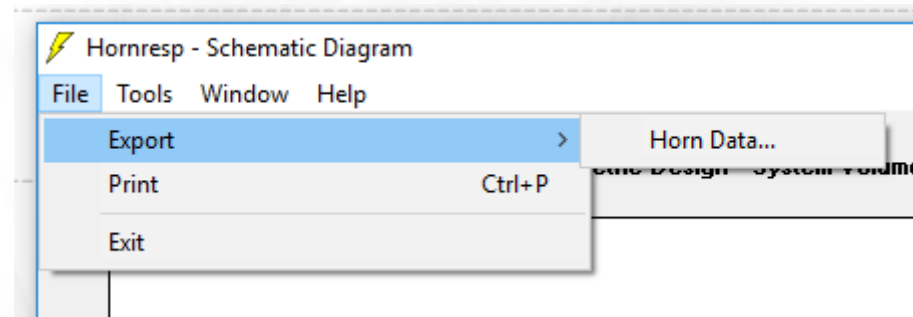
If Input Parameters was selected, then the Export options below are available.



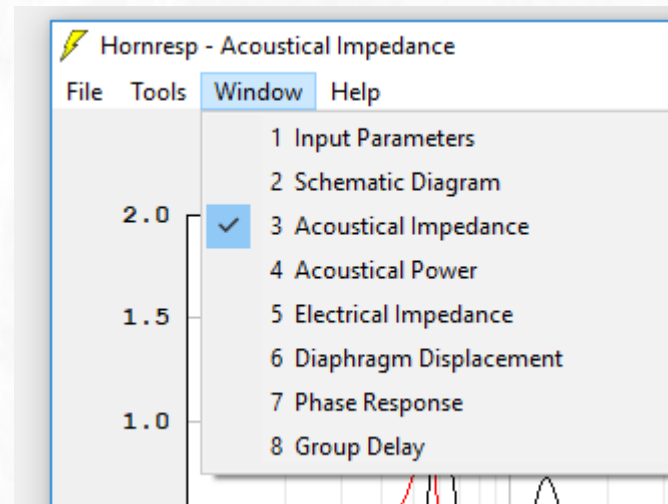
Select Schematic Diagram



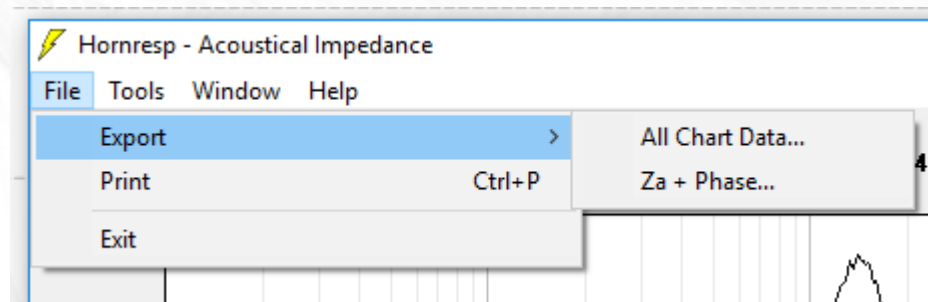
Now Horn Data can be exported



Select Acoustical Impedance.



Now All Chart Data can be exported.



Multiple Drivers Overview


Hornresp has two possible variations on making a horn loudspeaker with two drivers.

Method I – Input all driver information for a single driver, then select the option for multiple speakers.

Method II – Input some of the driver information for a single driver, but double areas or volumes, depending on setting.

Multiple Drivers - I

Fill in the driver information as below for a single driver.

 **Hornresp - Input Parameters** — □ ×

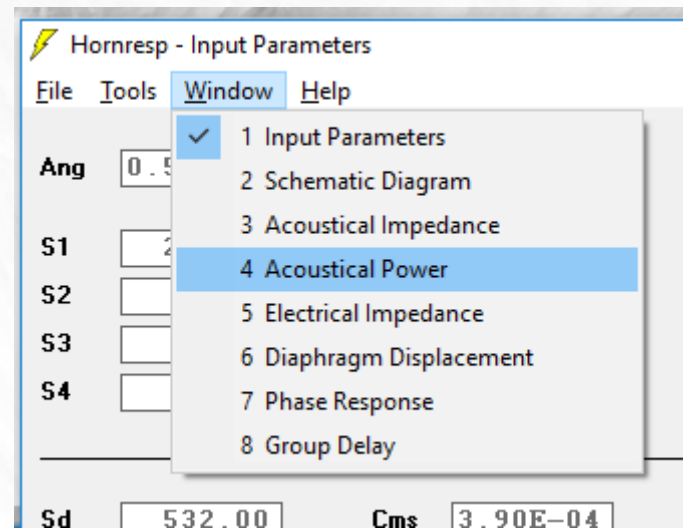
File Tools Window Help

Ang	<input type="text" value="0.5 x Pi"/>	Eg	<input type="text" value="2.83"/>	Rg	<input type="text" value="0.00"/>	Cir	<input type="text" value="0.48"/>
S1	<input type="text" value="200.00"/>	S2	<input type="text" value="2025.00"/>	Exp	<input type="text" value="172.00"/>	F12	<input type="text" value="36.84"/>
S2	<input type="text" value="0.00"/>	S3	<input type="text" value="0.00"/>	L23	<input type="text" value="0.00"/>	AT	<input type="text" value="3.07"/>
S3	<input type="text" value="0.00"/>	S4	<input type="text" value="0.00"/>	L34	<input type="text" value="0.00"/>	F34	<input type="text" value="0.00"/>
S4	<input type="text" value="0.00"/>	S5	<input type="text" value="0.00"/>	L45	<input type="text" value="0.00"/>	F45	<input type="text" value="0.00"/>

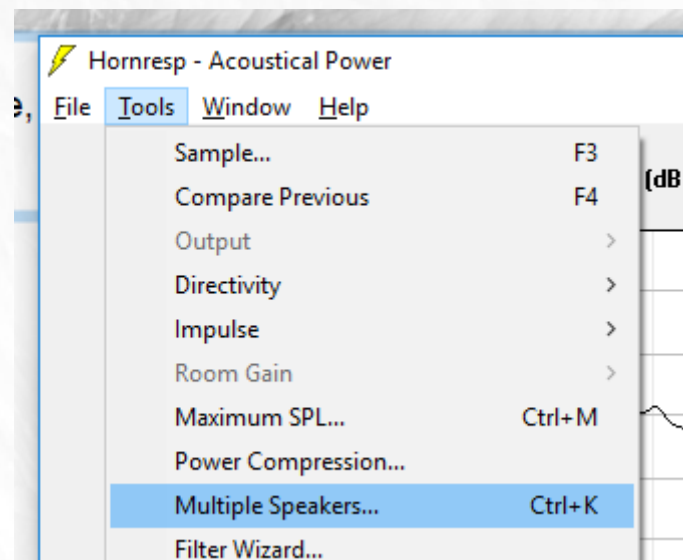
Sd	<input type="text" value="532.00"/>	Cms	<input type="text" value="3.90E-04"/>	Mmd	<input type="text" value="45.95"/>	Re	<input type="text" value="5.66"/>
Bl	<input type="text" value="10.56"/>	Rms	<input type="text" value="1.26"/>	Le	<input type="text" value="0.84"/>	Nd	<input type="text" value="1"/>
Vrc	<input type="text" value="25.00"/>	Fr	<input type="text" value="100.00"/>	Vtc	<input type="text" value="2170.00"/>		
Lrc	<input type="text" value="14.00"/>	Tal	<input type="text" value="4.00"/>	Atc	<input type="text" value="545.00"/>		

Comment

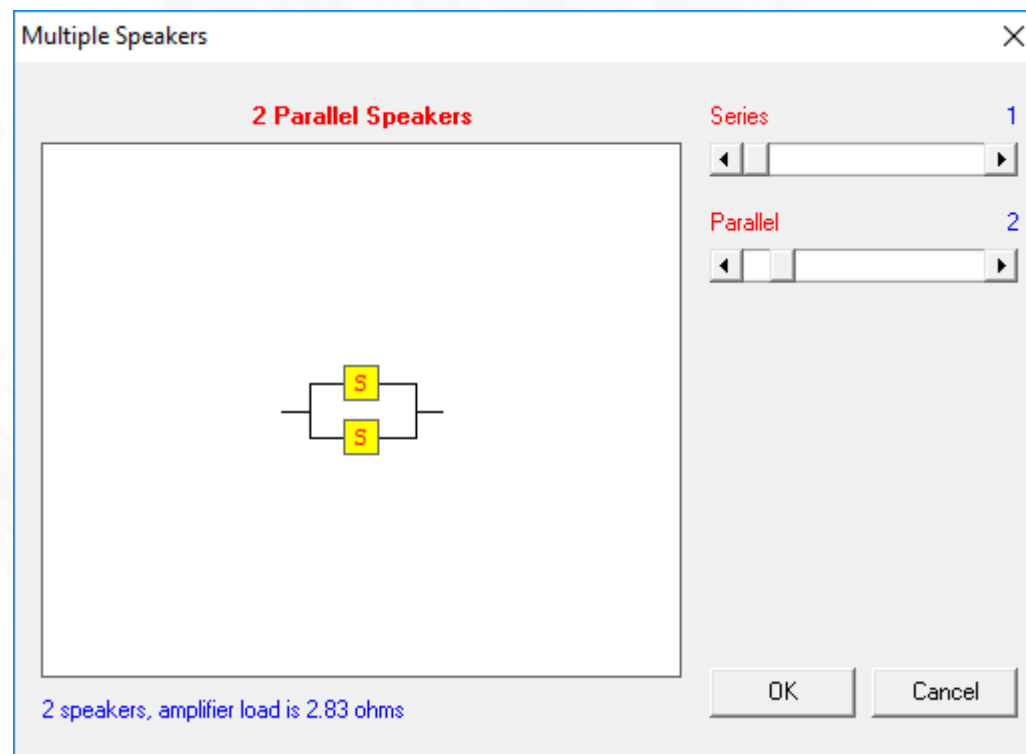
Click Calculate, then Window | Acoustical Power.



Select Tools | Multiple Speakers.



Select the Parallel slider for 2 parallel speakers.



Multiple Drivers - II

To create a file that has the same parameters as two separate drivers, then double all of the entries in the boxes below, except for the Nd box, which has 2P entered.

Hornresp - Input Parameters

File Tools Window Help

Ang	0.5 x Pi	Eg	2.83	Rg	0.00	Cir	0.68
S1	400.00	S2	4050.00	Exp	172.00	F12	36.84
S2	0.00	S3	0.00	L23	0.00	AT	4.34
S3	0.00	S4	0.00	L34	0.00	F34	0.00
S4	0.00	S5	0.00	L45	0.00	F45	0.00

Sd	532.00	Cms	3.90E-04	Mmd	45.95	Re	5.66
Bl	10.56	Rms	1.26	Le	0.84	Nd	2P
Vrc	50.00	Fr	100.00	Vtc	4340.00		
Lrc	14.00	Tal	4.00	Atc	1090.00		

Comment Eminence BP122 - 35Hz (4) double

Previous Next Edit Add Delete Record 21 of 21 Calculate

Double click on Nd, then select 2 parallel, and click OK. An updated graph will be generated.

