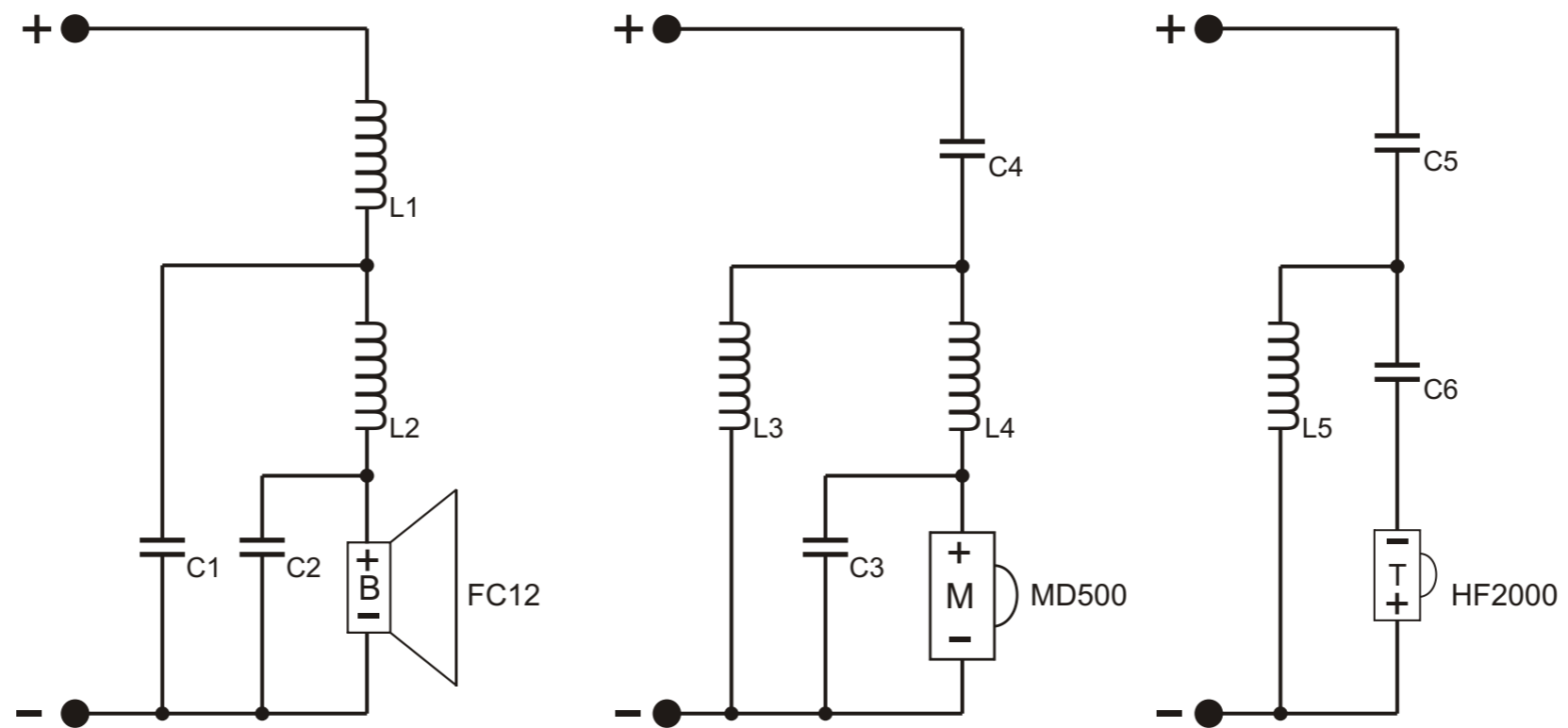


## X-Over Diagram for Celestion (Ditton) 66 Studio Monitor

Circuit split for Tri Wiring

Updated 22/02/2015



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## PARTS LIST

Nominal values used with no adjustment for driver ageing/performance loss etc.  
Based on results I have had from experimenting and not on rumors or theory as to what should work.  
Drivers/components are for later "Woodies" using MD500 mid range, which after trying both types  
I prefer over the MF500, as it integrates better, especially noticeable at higher volumes.

FC 12 Bass #T.1600  
MD500 Mid Range #T.2618  
HF2000 Tweeter type #T.2373.

Note: Replacing electrolytics with Polypropylene caps and ESR simulating resistors does not work in this circuit  
and the resulting sound when used is truly awful.

Caps should be replaced like for like, that is, film caps for the tweeter and electrolytics for all others.  
Part brands are what I used and are by no means definitive, electrolytics are Mundorf ECap (Plain) 70v Bipolar  
and Alcap 100v Bipolar, Polypropylene Film Caps are Ansar Supersound.  
Coils are standard issue.

See Diagram on page 1

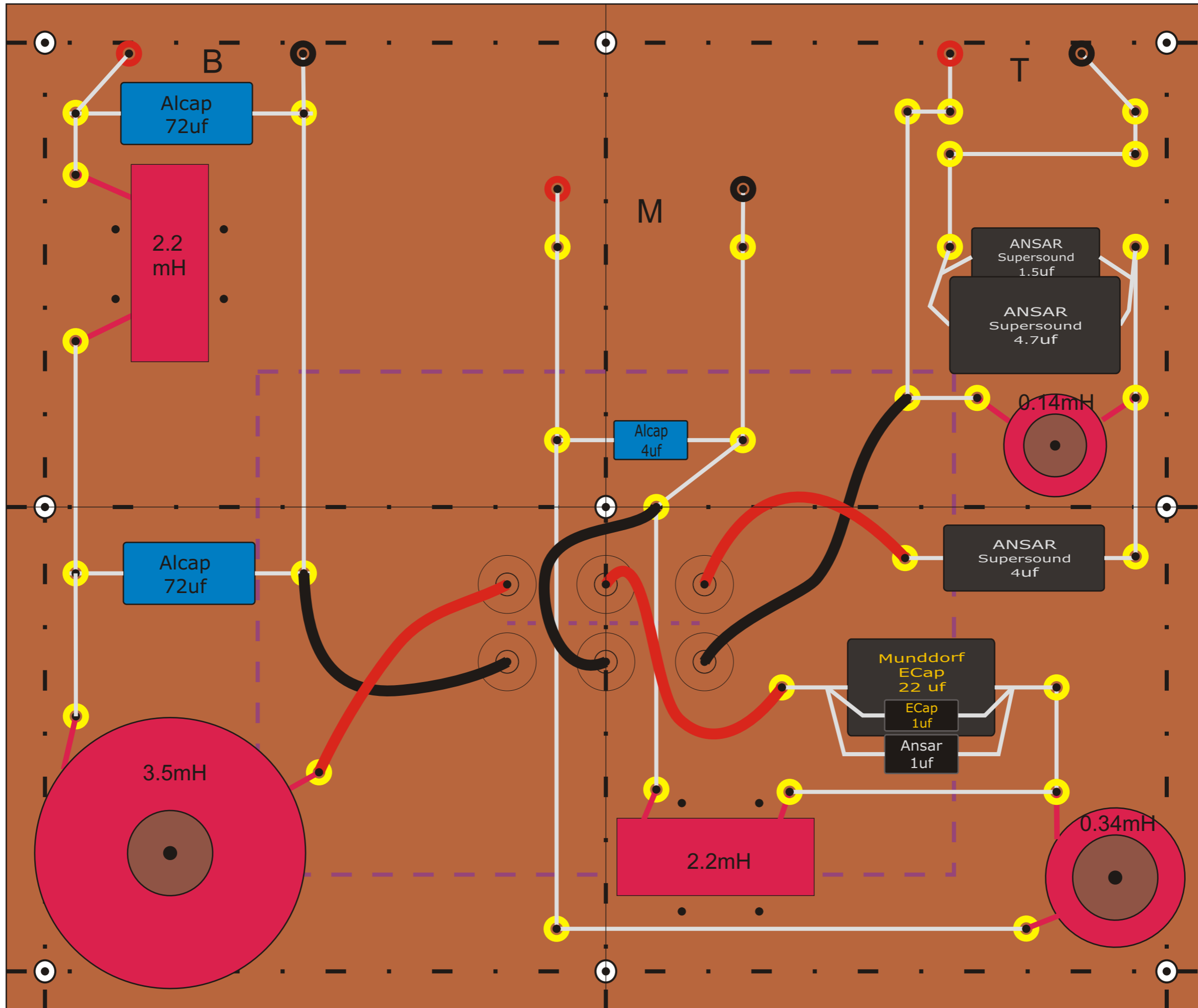
C1	72uf	Alcap
C2	72uf	Alcap
C3	4uf	Alcap
C4	24uf	Parallel 22uf ECap + 1uf ECap + 1uf Ansar PP*
C5	4uf	Ansar PP
C6	6.2uf	Parallel 4.7uf + 1.5uf Ansar PP's
L1	3.5 mH	
L2	2.2 mH	
L3	2.2 mH	
L4	0.34 mH	
L5	0.14 mH	

\*Note: The addition of a 1uf PP cap in the 24uf mix adds a bit of body to the mid range without  
the draw backs associated with using a total value made of PP's, do not use more than 5% PP here.

If the Seas 19TFF1 tweeter is to be used the following changes should be made:

C5	3.3uf	Ansar PP
C6	9uf	Ansar PP
L5	0.17mH	Jantzen air core with a DCR of around 0.15 to 0.2 Ohm.

# Layout



Stock coils are used but spacing is improved to avoid interaction, the board is 310 x 260 mm. This the largest that will fit through the driver aperture and it is located behind the ABR unit away from the large magnet on the Bass driver.

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