

# Film-Tech

The information contained in this Adobe Acrobat pdf file is provided at your own risk and good judgment.

These manuals are designed to facilitate the exchange of information related to cinema projection and film handling, with no warranties nor obligations from the authors, for qualified field service engineers.

If you are not a qualified technician, please make no adjustments to anything you may read about in these Adobe manual downloads.

[www.film-tech.com](http://www.film-tech.com)



# Dolby Laboratories Inc

Field Bulletin 195

## Model CP45 Changing Crossover Frequency Selection

- |   |
|---|
| <input type="checkbox"/> Modification Urgent                  |
| <input type="checkbox"/> Modification Recommended             |
| <input type="checkbox"/> Modification Required on Early Units |
| <input checked="" type="checkbox"/> Information Bulletin      |

This modification is offered for customers who wish to change the choice of crossover frequency used with bi-amplified speaker systems connected to the Left, Center, and Right screen channels. The need to shift the frequency to a higher value has been brought about by the introduction of smaller high frequency drivers.

This Bulletin describes the modifications on the Cat. No. 510 Input/Output card required to produce:

**Modification 1** - A fixed crossover frequency of either 1000 Hz or 1200 Hz. Requires changing 4 resistors per channel.

- Or -

**Modification 2** - A switchable crossover frequency of 1000 Hz or 1200 Hz. Requires changing 8 resistors per channel.



Signal Processing and Noise Reduction Systems

100 Potrero Avenue  
San Francisco, California 94103-4813  
Telephone 415-558-0200  
Facsimile 415-863-1373

Wootton Bassett  
Wiltshire SN4 8QJ  
Telephone 01793-842100  
Facsimile 01793-842101

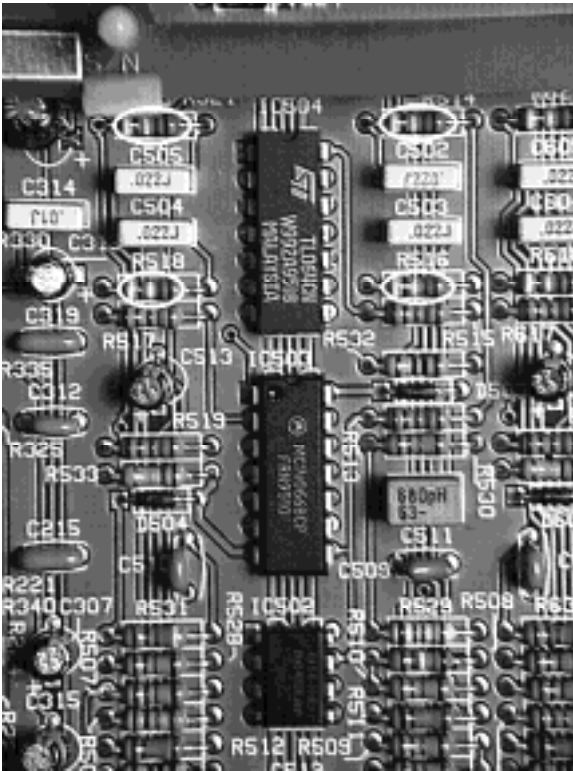
S96/11111

## Modification 1 - Fixed Crossover Frequency

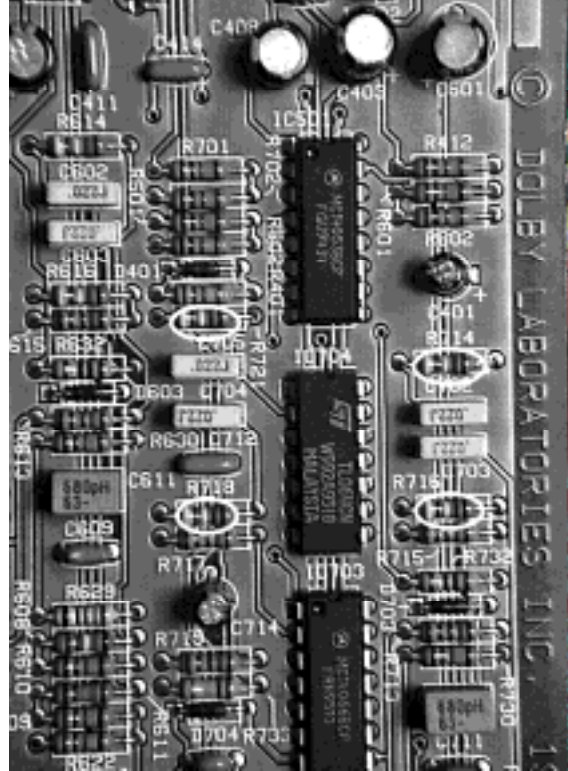
Channel	Resistor Locations				Resistor Value for 1000 Hz	Resistor Value for 1200 Hz
Left	R514	R516	R518	R521	7.32k	6.04k
Center	R614	R616	R618	R621		
Right	R714	R716	R718	R721		

Note: Crossover frequency switches L, C, and R must be set to the "HI" or "800 Hz" position.

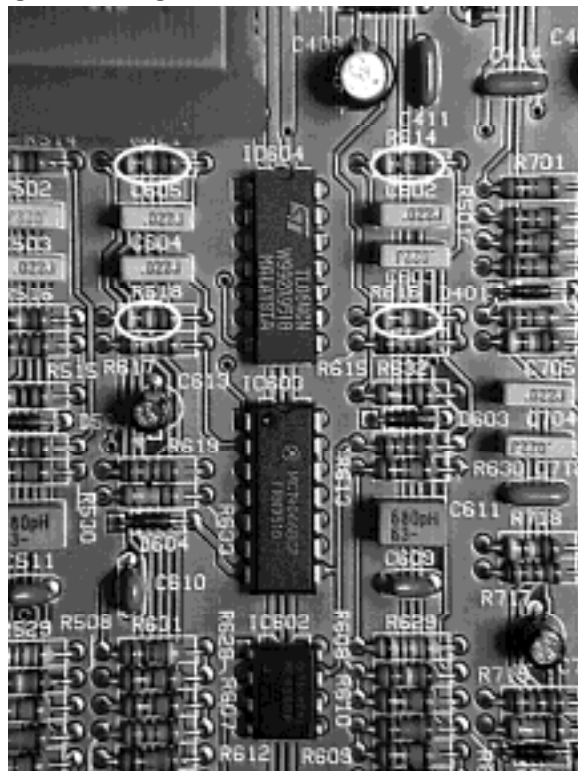
### LEFT CHANNEL:



### RIGHT CHANNEL:



### CENTER CHANNEL:

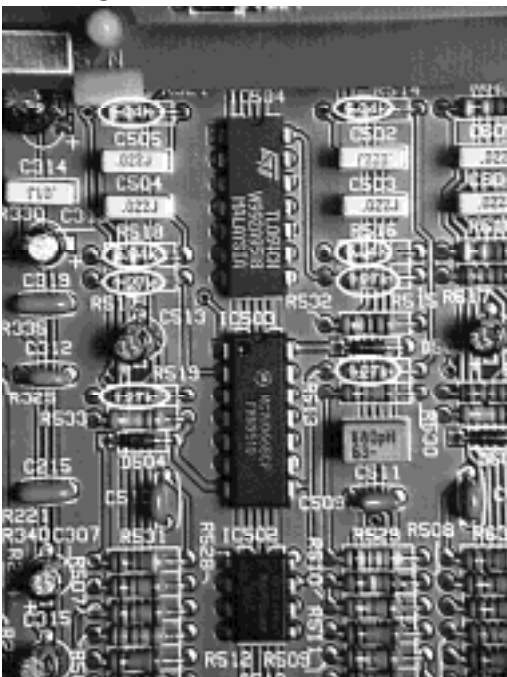


## Modification 2 - Switchable Crossover Frequency

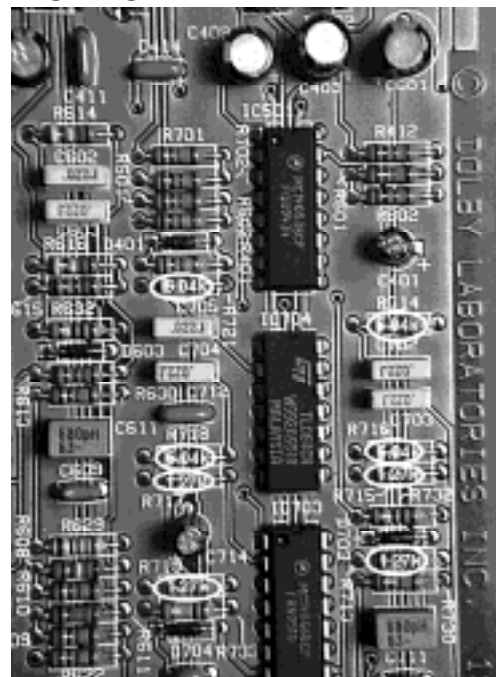
Channel	Resistor Locations				Resistor Value
Left	R514	R516	R518	R521	6.04k
	R513	R515	R517	R519	1.27k
Center	R614	R616	R618	R621	6.04k
	R613	R615	R617	R619	1.27k
Right	R714	R716	R718	R721	6.04k
	R713	R715	R717	R719	1.27k

**Note:** Crossover frequency switches L, C, and R now take on new frequencies:  
**Position "HI" or "800 Hz" now produces a crossover frequency of 1200 Hz**  
**Position "LO" or "500 Hz" now produces a crossover frequency of 1000 Hz**

**LEFT CHANNEL:**



**RIGHT CHANNEL:**



**CENTER CHANNEL:**

