

# **YAMAHA**

## **COMBO ORGAN**

# YC-25D

## **SUPPLEMENTARY SERVICE MANUAL**

### **Ver. 1.0**

[To be used in conjunction with the YAMAHA YC-45D Service Manual  
and YC-25D Owner's Manual]

## FOREWORD

Unable to find a service manual for the Yamaha YC-25D combo organ, I put together this supplementary service manual to aid in problem solving and repairs for the YC-25D. This manual is designed to be used in conjunction with the freely available YC-45D Service Manual and YC-25D Owner's Manual and aims to provide a starting point guide for your own YC-25D repair work without the overwhelming extra features and content of the YC-45D Service Manual. I hope that by sharing this homemade manual from my own experience, you'll be able to problem solve and repair your own YC-25D combo organ without the headaches I initially faced without it.

A disclaimer: The images and descriptions provided are generated from my own experience, but I cannot guarantee 100% accuracy for them. Treat them as approximations and a starting point for your own repairs. Any sections I'm especially unsure of have been highlighted in **RED** as a speculative approximation, though the rest I'm fairly confident on. I'm also not affiliated with or endorsed by Yamaha; I'm just a fan. Any use of this supplementary service manual is done so at your own risk and I hold no responsibility for any damages incurred including but not limited to your organ, equipment or self, or injury that is caused by its use. With all that said, I hope you find this manual a useful resource as I have, and I wish you all the best in your YC-25D repairs.

This supplementary service manual is provided free of charge. You may share it freely but please do not charge for it. If you've found it helpful and would like to make a donation, you can do so via PayPal below, and if you have any comments, suggestions, corrections, or questions, feel free to contact me at JabunAudio.com and I'll do my best to help.

All the best and happy YC-25D problem solving,

Nick Standing (JabunAudio)

Contact: <https://www.jabunaudio.com/>

Donations: <https://www.paypal.me/NickStanding>

YC-45D Service Manual: <http://dl.lojinx.com/analoghell/YamahaYC45DServiceManual.pdf>

YC-25D Owner's Manual: <https://www.manualslib.com/manual/340359/Yamaha-Yc-25d.html>

### Notes:

- This manual (Ver. 1.0) was last updated October 2020.
- Wire colours may differ from YC-45D Service Manual and Specifications.
- The Frequency Divider IC in my own organ is the HD3111, which I believe to be equivalent to the YM001 and LM3211 given in the YC-45D Service Manual.
- This Supplementary Service Manual is for YC-25D organs with the Pizzicato Bass control. Layout and circuit diagrams may differ for those with the Bass Sustain control instead.
- For Yamaha YC-25D Combo Organ specifications, see the YC-25D Owner's Manual.

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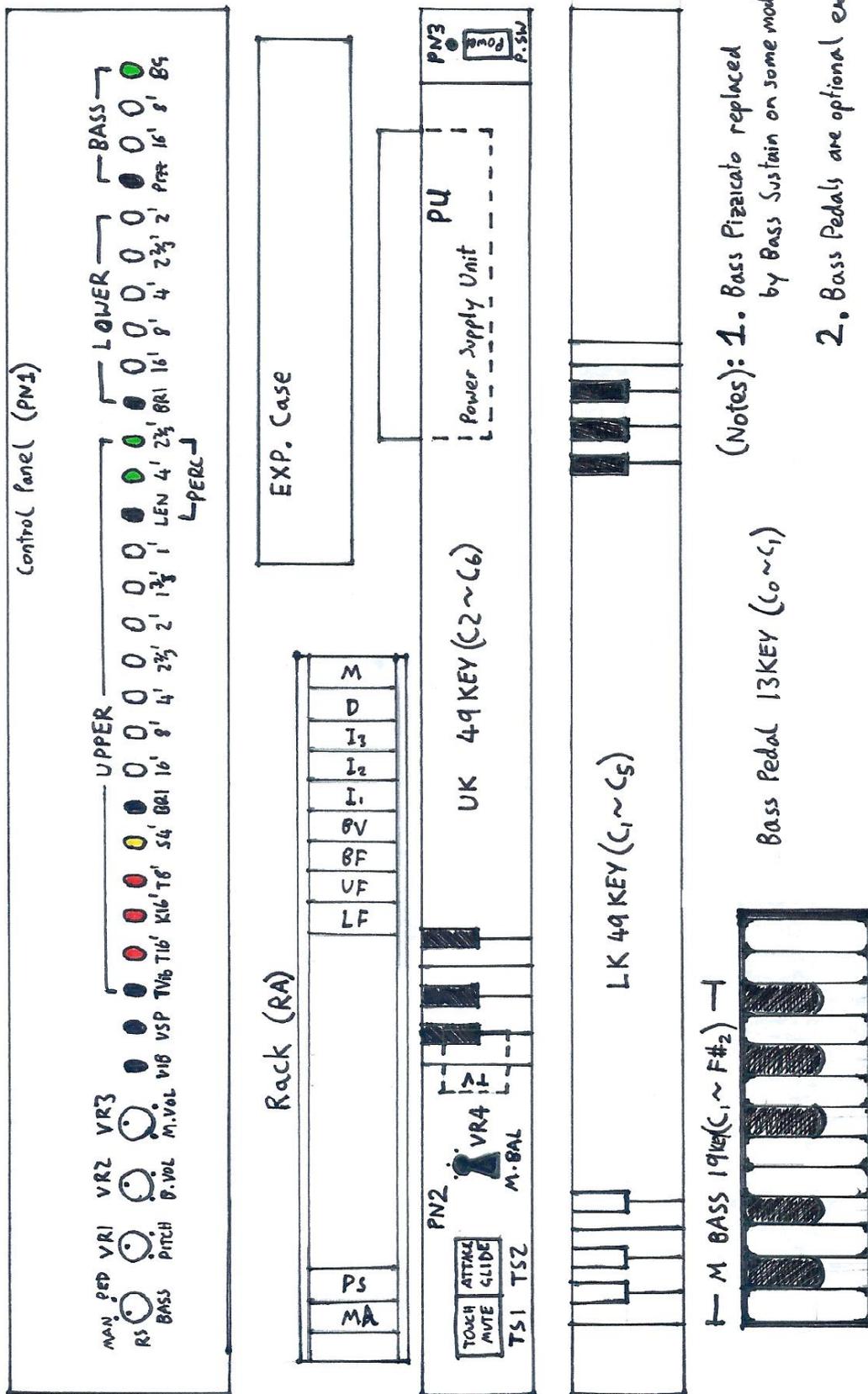
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## 1. CIRCUIT BOARD DESCRIPTION CHART

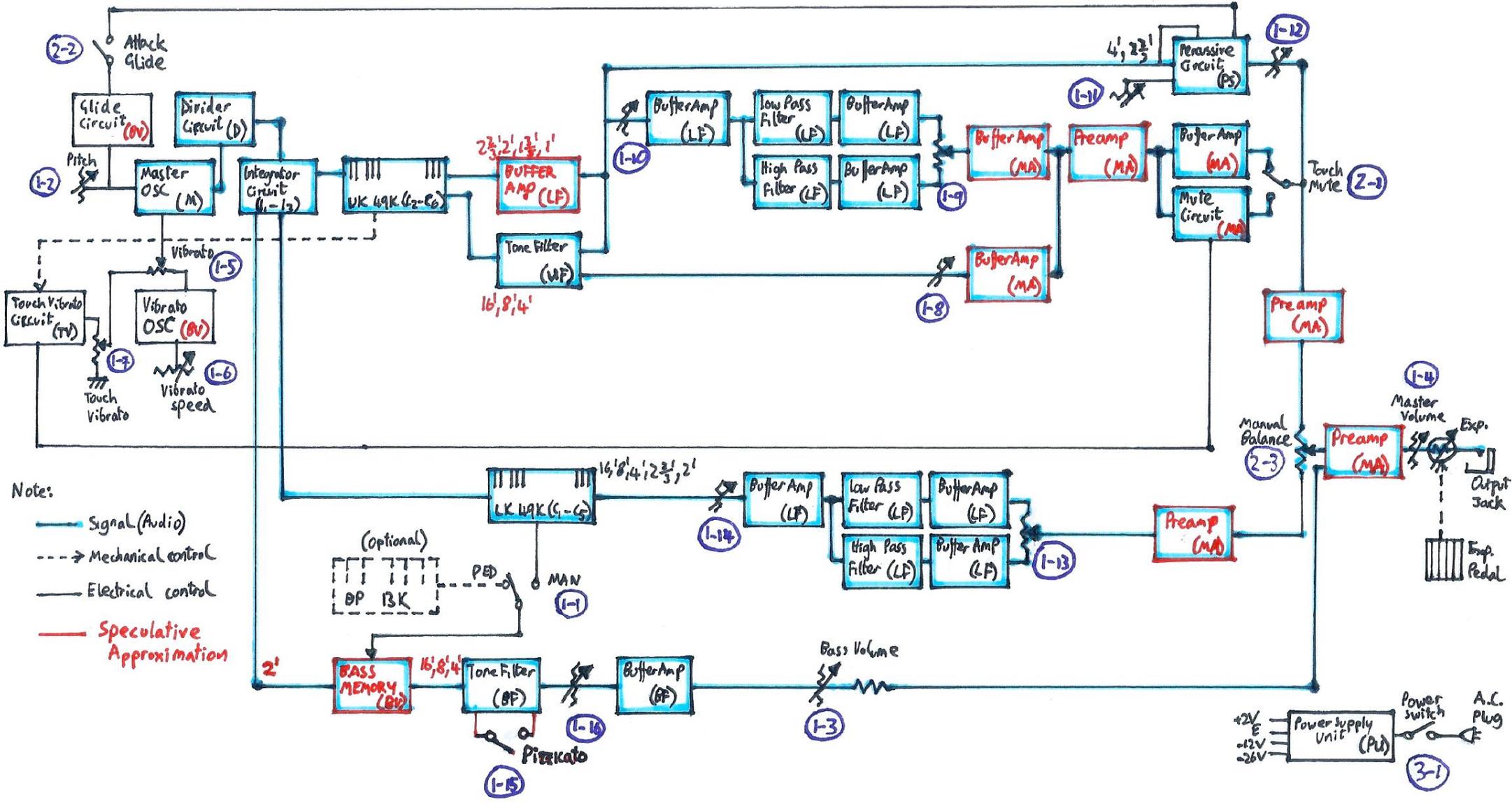
CIRCUIT	DESCRIPTION	NOTES
<b>M</b>	Tone Generator Circuit ( $c^5 - b^5$ )	See YC-45D Service Manual
<b>D</b>	Divider Circuit (C – B)	See YC-45D Service Manual
<b>I3</b>	Integrator Circuit ( $G^\# - B$ )	See YC-45D Service Manual
<b>I2</b>	Integrator Circuit (E - G)	See YC-45D Service Manual
<b>I1</b>	Integrator Circuit (C – $D^\#$ )	See YC-45D Service Manual
<b>BV</b>	Attack Glide Circuit? Vibrato OSC? Bass Memory?	Not present in YC-45D See YC-45D <b>V</b> and <b>BM</b> Circuits?
<b>BF</b>	Bass Filter	See YC-45D Service Manual ( <b>BF</b> Similar)
<b>UF</b>	UK Tone Filters T16' K16' T8' S4'	See YC-45D Service Manual ( <b>UF4</b> Similar)
<b>LF</b>	UK & LK Flute Filters	See <b>LF Circuit Board Layout and Wiring (Page 8)</b>
<b>PS</b>	UK Percussive Circuit	See YC-45D Service Manual ( <b>PS</b> Similar)
<b>MA</b>	Mute Filter? Preamps?	Not present in YC-45D See YC-45D <b>MF</b> and <b>A</b> Circuits?
<b>TV</b>	Touch Vibrato Circuit	See YC-45D Service Manual
<b>PU</b>	Power Supply Circuit	See YC-45D Service Manual

Note: Red text indicates speculative approximation / suggestions

## 2. UNIT LAYOUT

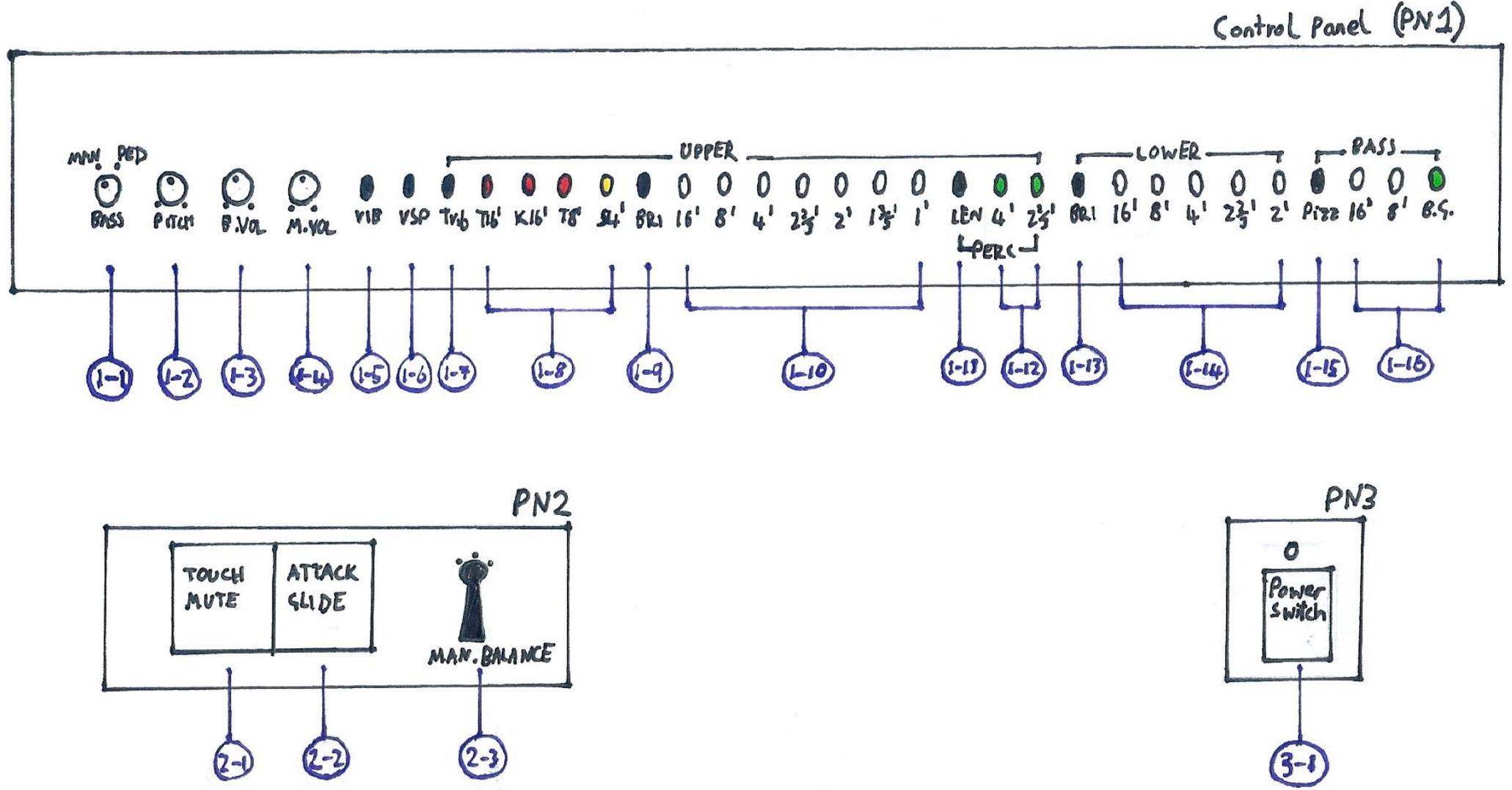


### 3. BLOCK DIAGRAM [CIRCUIT]



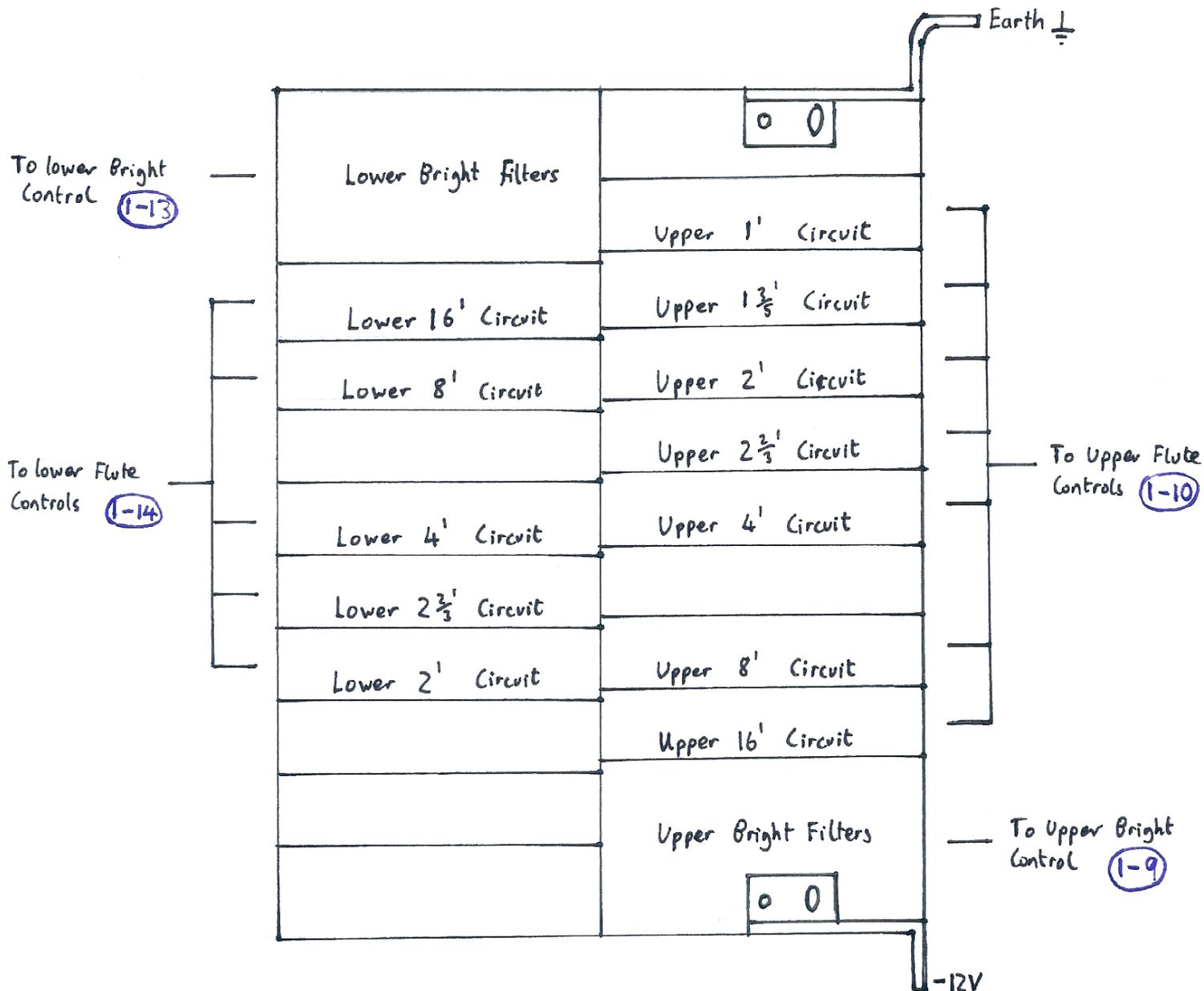
- Notes:
- Signal (Audio)
  - - - Mechanical control
  - Electrical control
  - Speculative Approximation

### 4. BLOCK DIAGRAM [CONTROL PANELS]



### 5. LF CIRCUIT BOARD LAYOUT AND WIRING

- See YC-45D Service Manual **LF** Circuit Board (NA021780) and Wiring for details on LK Flute Filters
- See YC-45D Service Manual **UF3** Circuit Board (NA021760) and Wiring for details on UK Flute Filters



Note: Wire colours may differ from YC-45D Service Manual and Specifications