

Technical Data

GB 8



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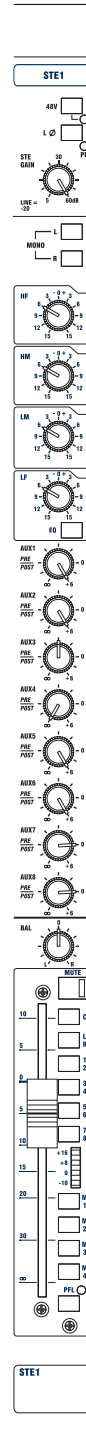
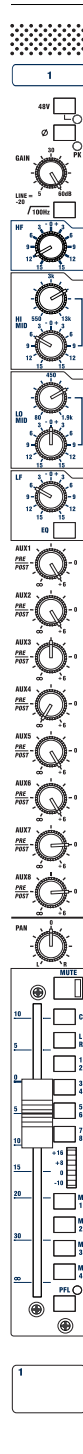
Introduction

- Dual purpose console.
- 16, 24, 32, 40 and 48 channel frame sizes
- Individually switched 48V phantom power on every mono input module.
- 4 Full-feature Stereo channels.
- 8 Aux sends (all switchable between pre/post fader operation).
- 8 Group sends (SWAP with all 8 Auxes).
- 4 Stereo returns.
- 4 Mute Groups.
- 11x4 Output Matrix.
- Limiter on Record Output and Alternative Stereo Output.
- GB30 mic pre-amp.
- 4-band GB30 EQ.
- 1kHz oscillator
- Meter Bridge with accurate VU meters for LEFT, RIGHT and CENTRE Outputs.
- Integral power supply, with an external power supply link option.
- All metal TRS jacks and Neutrik XLRs.
- Direct outputs on all mono input channels.

GB8 Modules

Mono Input

Stereo Input

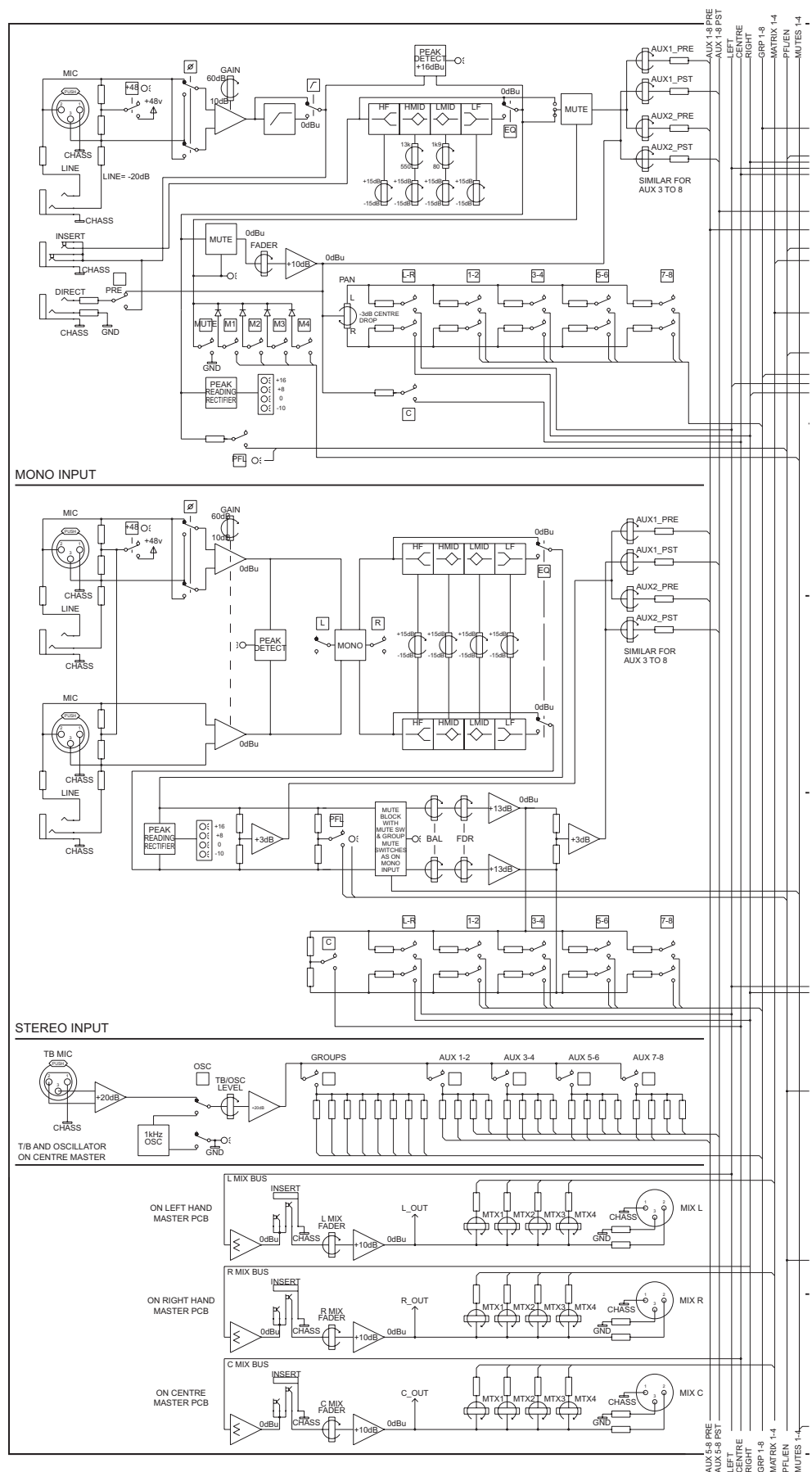


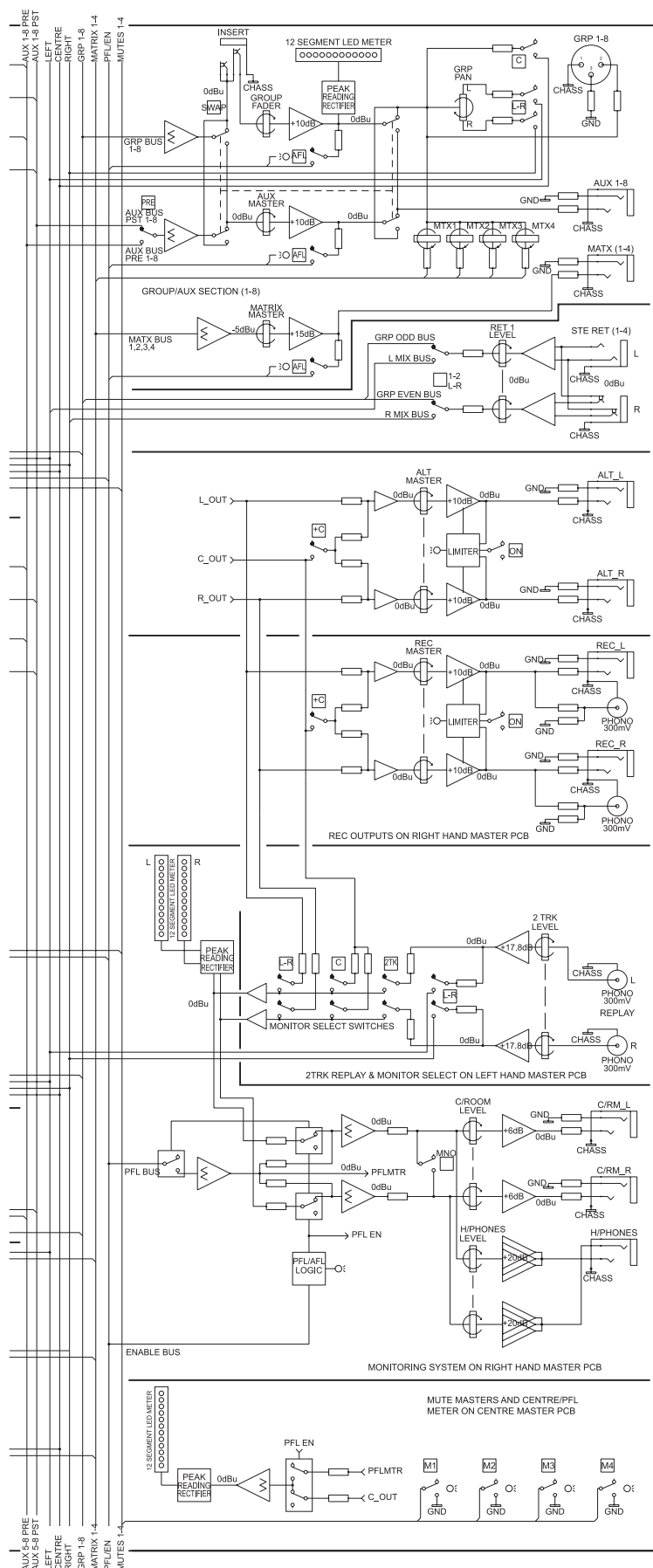
Master Section

The diagram illustrates the Master Section of the GB 8 audio processor. It features a central control panel with the GB 8 logo and a LAMP indicator. The panel is divided into several functional areas:

- Top Section:** Includes a LAMP indicator and a row of eight small square buttons.
- Matrix Section:** Contains four matrix controls (MATRIX 1 MASTER, MATRIX 2 MASTER, MATRIX 3 MASTER, MATRIX 4 MASTER) with associated AFL and APL meters.
- MTS Section:** Features eight MTS (Matrix Transfer System) controls, each with a rotary switch and a meter.
- STEREO RETURN Section:** Includes four STEREO RETURN controls (STEREO RETURN 1, 2, 3, 4) with associated A-1-2 and A-7-8 meters.
- MONITORING Section:** Contains various monitoring controls including MONO, STEREO, and MONITORING, with associated meters and switches.
- Output Section:** Includes controls for ALTERNATE STEREO OUTPUT, RECORD OUTPUT, and TALKBACK/OSC LEVEL.
- Bottom Section:** Features a row of eight small square buttons and a row of three larger buttons labeled LEFT, RIGHT, and CENTRE.

Block Diagram







Technical Data

Specifications

Noise: Measured RMS, 22Hz to 22kHz Bandwidth

Mic E.I.N. @ unity gain, 150W source impedance	-128dBu
Mix Output, 40 inputs routed to mix	<-82dBu
Group Outputs	<-83dBu
Aux Outputs	<-80dBu
Matrix Outputs	<-89dBu

Crosstalk (@1kHz, typical)

Input Channel Mute	<-97dB
Input Fader cut-off	<-95dB
Pan isolation	<-77dB
Mix route isolation	<-97dB
Group route isolation	<-97dB
Adjacent channel crosstalk	<-99dB
Group to Mix	<-89dB
Aux Send pots offness (typical)	<-84dB
Matrix Send pots offness (typical)	<-84dB

Frequency Response

Mic/Line Input to any output, 20Hz - 20kHz	<1dB
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THD + N

Mic sens. -30dBu, +20dBu at all outputs @1kHz	<0.006%
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CMRR

Typical @ 1kHz	80dB
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Input & Output Max Levels

Mono & Stereo Mic Inputs	+15dBu
Mono & Stereo Line Inputs	+30dBu
Stereo Returns & Insert Returns	+20dBu
Any output	+20dBu
Nominal Operating Level	0dBu
Headphone Power	2x250mW into 200Ω

Input & Output Impedances

Mic Inputs	2kΩ
Line Inputs and Stereo Returns	10kΩ
Mix, Group, Aux, Matrix & Direct outputs	150Ω
Insert Sends	75Ω
Insert Returns	5kΩ
Recommended Headphone Impedance	50 - 600Ω

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