

GigRac 1000st Technical Manual





IMPORTANT

Please read ALL parts of this manual carefully, particularly the Safety Instructions in the User Manual before using your mixer for the first time.

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Part No. ZM0322-01

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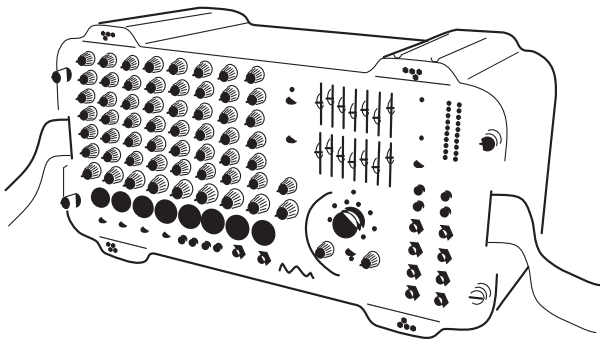
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GREAT SOUND MADE EASY

GIGRAC

GIGRAC
1000st 
PROFESSIONAL POWERED MIXER

User Guide



IMPORTANT

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Issue: 1

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This equipment complies
with the EMC directive
89/336/EEC
Modified by
92/31/EEC
93/68/EEC
91/263/EEC
and LVD 73/23/EEC
modified by 93/68/EEC

This product is approved to
safety standards:

IEC 60065: 2001
EN60065:2002
UL6500 7th Edition: 2003
CAN/CSA-E60065-00

And EMC standards
EN55103-1: 1996 (E2)
EN55103-2: 1996 (E2)

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NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

IMPORTANT SAFETY INSTRUCTIONS

CAUTIONS

- To avoid the risk of fire, replace the mains fuse only with the correct type and value fuse, as marked on the rear of the product.
- **ATTENTION:** - Afin de réduire le risque de feu remplacer seulement avec fusible de même type.
- **MAINS VOLTAGE SELECTION**

This setting is NOT User Adjustable.

The units are capable of operating at either 230V AC or 115V AC mains voltages $\pm 10\%$.

- **REPLACING MAINS FUSE**

Remove the mains lead from the connector. Use a small screwdriver to unscrew the fuse carrier from its location to the left of the mains power connector. Check the fuse is of the correct type and value and replace if necessary; also check that the voltage rating as marked on the rear panel is correct for the mains supply level before switching the unit ON again.

If the mains fuse fails repeatedly this may be because an electrical safety hazard exists. The unit must be taken out of service and referred to the Soundcraft dealer from where the equipment was purchased.

- **THIS UNIT MUST BE EARTHED**


Under no circumstances should the mains earth be disconnected from the mains lead.

- **ATTENTION:** - Cet appareil doit être branché à la terre.

The wires in the mains lead are coloured in accordance with the following code:

| | UK & EU | US & CAN |
|-----------------|------------------|------------------|
| Earth / Ground: | Green and Yellow | Green and Yellow |
| Neutral: | Blue | White |
| Live: | Brown | Black |

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth / ground symbol: 

The wire which is coloured Blue or White must be connected to the terminal in the plug which is marked with the letter N.

The wire which is coloured Brown or Black must be connected to the terminal in the plug which is marked with the letter L.

Ensure that these colour codings are followed carefully in the event of the plug being changed.

Replacement Part No: FJ8016 (UK) : FJ8017 (EU) : FJ8018 (US & CAN)

- Do not install near any heat sources such as radiators, heat resistors, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not use this apparatus near water. The apparatus must not be exposed to dripping or splashing. Objects containing liquid must not be placed on the apparatus.
- The disconnect device is the mains plug or the appliance connector: either one must remain accessible so as to be readily operable in use.
- Do not defeat the safety purpose of the polarized or grounding type plug.

A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- Protect the power cord from being walked on or pinched particularly at plugs and convenience receptacles.
- Only use cables and hardware specified by the manufacturer.

- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way such as, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, the apparatus does not operate normally or has been dropped.
- If the power cord is damaged obtain a replacement from your Soundcraft dealer.
- It is recommended that all maintenance and service on the product should be carried out by Soundcraft or its authorised agents. Soundcraft cannot accept any liability whatsoever for any loss or damage caused by service, maintenance or repair by unauthorised personnel.
- If a trolley is used, use caution when moving the trolley / apparatus combination to avoid injury from tip-over.

WARNINGS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- This unit contains no user serviceable parts. Refer all servicing to a qualified service engineer, through the appropriate Soundcraft dealer.
- Clean the apparatus only with a dry cloth.
- DO NOT block any of the ventilation openings. DO NOT install where air cannot flow over the rear of the unit. DO Install in accordance with the manufacturers instructions.

Introduction

Firstly we'd like to thank you for choosing the Soundcraft GigRac 1000st. We hope you have many happy years together!

Features

- 8 Microphone Inputs
- 48V Phantom Power for condenser microphones (Inputs 1-4 only)
- PAD buttons for controlling loud input signals (Inputs 1-4 only)
- 4 Stereo inputs
- Treble, Mid and Bass controls
- Pan/Bal controls
- Individual volume controls on each channel for Monitor level.
- Individual volume controls on each channel for Main level.
- Individual send controls for GiGFX on each channel
- 2 x 7 Band Graphic Equaliser
- 10 x Digital Effects (24 Bit/48 kHz)
- Record Output
- Playback Input
- FX bypass switch
- FX bus output socket
- Submix input
- 2 x Amplifier 'Clip' warning lights
- 2 x 10 segment LED output level meters

The GigRac case.

Your GigRac is cased in a structural foam copolymer polypropylene resin, which gives an optimum combination of strength and impact resistance. This material also helps to keep the shell in good condition as it very resistant to dents and scratches.

The nature of the moulding process leaves the irregular streaky surface finish that gives the GigRac its tough and unique look.

Amplifier Power Ratings

GigRac 1000st

2 x 500W @ 4 Ohms.

2 x 300W @ 8 Ohms.

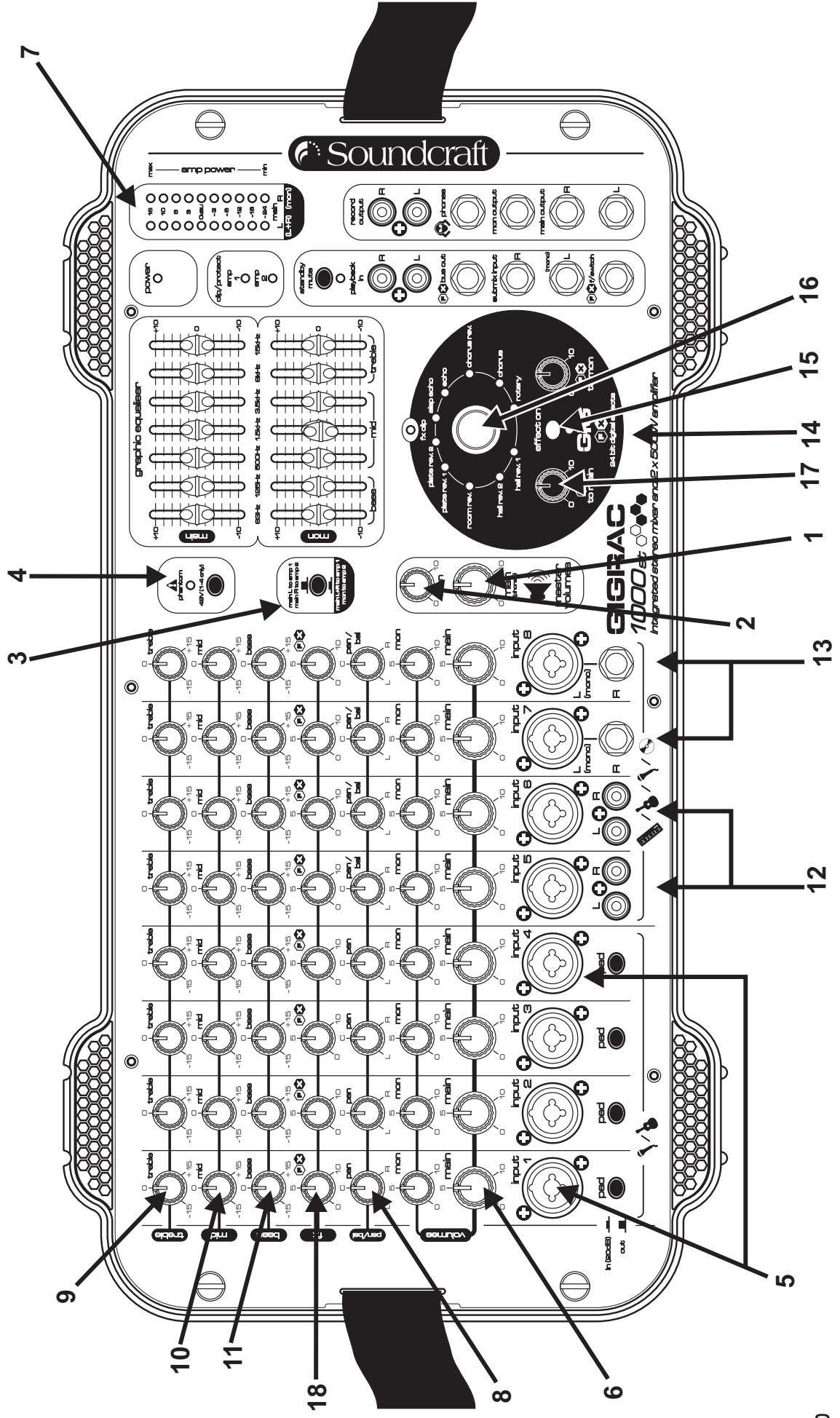
Quick Start Guide

If like most people you can't wait to use your GigRac for the first time, then use the Quick Start Guide to get things started. The Quick Start Guide covers the following:

- 1. Connecting up your loudspeakers to the GigRac**
- 2. Plugging in a vocal microphone**
- 3. Adding Treble, Mid or Bass to the signals**
- 4. Plugging in a guitar or stereo keyboard**
- 5. Apply one of the 10 GigFX digital effects to the signals**

Note: We recommend that you read through the entire GigRac user guide to familiarise yourself with all of the features on offer.

Quick Start Guide Key



1. Connecting up your loudspeakers to the GigRac

Note: Make sure your GigRac is not powered up. This is very important to prevent any damage to either the GigRac or your loudspeakers!

Using good quality speaker cables connect the loudspeakers to the Speaker outputs on the rear of the GigRac.

If you have cables equipped with Neutrik Speakon® connectors then use the Speakon® connectors on the rear of the GigRac. Alternatively if you have cables equipped with jack plugs then use the jack sockets on the rear of the GigRac.

Make sure that the Main Master Volume control **(1)** - see the key on page 9) and the Monitor (Mon) Master Volume control **(2)** are turned fully down.

Decide if you want to configure the 2 internal amplifiers to work as a stereo pair, or mono mix and monitor. Set the amplifier source select switch **(3)** as desired. It is assumed in these quick start instructions that you have configured the amps as a stereo pair.

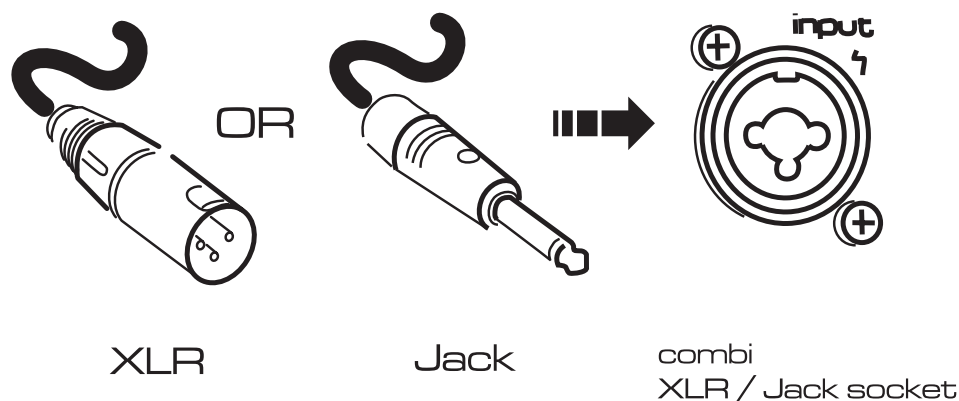
Now switch the GigRac on using the Power switch on the rear of the unit.

2. Plugging in a vocal microphone

Note: Before connecting a microphone to channels 1-4, make sure that the 48V phantom power switch (4) is switched off (The red LED should not be illuminated).

Connect the microphone cable to one of the first four inputs on the front of the GigRac **(5)**.

(The inputs on the GigRac can receive either 3-Pin XLR or standard Jack connectors.)



Turn the Main Master Volume control **(1)** up to about half-way.

Now gradually turn up the Main Volume control **(6)** on the microphone channel you have chosen to use. You should now hear the microphone signal appearing in the loudspeakers as you begin to speak.

You should also be able to see activity on the Output Meter **(7)**.

Assuming that you have configured the amps as a stereo pair, you can pan the microphone signal from left to right using the Pan control **(8)**.

Note: The XLR input on channels 1 - 4 is very sensitive. Depending on your microphone or your application, you may need to press the PAD button to prevent distortion occurring; don't worry, this is perfectly normal.

Note: Be careful not to point the microphone at the loudspeakers or you could accidentally create unpleasant feedback sounds.

A note on Condenser Microphones

If your microphone is a condenser microphone that requires phantom power you will need to switch on the 48V phantom power switch **(4)** located to the left of the Graphic Equaliser. Before doing this make sure that the Main Volume control **(6)** on the chosen channel is turned fully off to avoid causing an unpleasant sound that might damage your speakers.

3. Adding Treble, Mid or Bass to the signal

The GigRac offers Treble, Mid and Bass control for changing the tone of the signal.

Treble (9)

To add or remove some brightness or 'sparkle' to or from a signal, use the Treble control. In the center 'click' position (0) the Treble control has no effect. Turning it clockwise will boost the treble frequencies making the signal sound brighter. Turning it anti-clockwise will have the opposite effect by removing the treble frequencies and making the signal sound less bright.

The Treble control is handy for adding some sparkle for example to an acoustic guitar, or for reducing the 's' sound from sibilant vocals.

Mid (10)

Short for 'Midrange' this knob can be used to cut or boost important fundamental frequencies. In the centre 'Click' position the Mid control has no effect. Turning it clockwise will boost the mid frequencies adding 'body' to signals. This is particularly effective on snare drums and percussive instruments. Turning it anti-clockwise will have the opposite effect and is useful for removing 'boxy' resonant frequencies from acoustic guitars and other signals.

Bass (11)

To add some 'bass thump' to a signal or remove some 'boominess' or rumble, use the Bass control. In the center 'click' position (0) the Bass control has no effect. Turning it clockwise will boost the Bass frequencies making the signal sound punchier and more 'bassy'. Turning it anti-clockwise will have the opposite effect by removing the bass frequencies and making the signal sound less 'boomy'.

The Bass control is useful for making a bass drum sound punchier, or alternatively could be used for reducing explosive 'b' and 'p' sounds from a vocal signal.

4. Plugging in an Acoustic Guitar, Stereo Keyboard or CD Player

The GigRac will happily receive signals from instruments with either mono or stereo outputs such as guitars (Mono) or stereo keyboards and CD Players (Stereo).

Before plugging in, make sure the Main Volume control **(6)** for the chosen channel is turned fully off to avoid accidental damage to your speakers.

Acoustic Guitars

Set the Main Master Volume control **(1)** to about halfway.

Make sure the Main Volume control **(6)** on the channel you are about to use is turned fully down.

Plug the guitar lead into the jack socket in the center of the combination input socket **(5)** on the channel of your choice. Turn up the volume control on your guitar to about halfway, and then gradually turn up the Main Volume control **(6)** until you hear the guitar signal appearing in the loudspeakers. You should also see activity on the Main Output meter **(7)**.

Stereo Keyboards and CD Players

The GigRac offers four channels that can receive stereo inputs. Two of these channels are equipped with RCA/Phono connectors (Channel 5 and 6) **(12)** and two with Jack connectors (Channels 7 and 8) **(13)**.

Connect up the Left and Right outputs of your CD player or Cassette deck to the Left and Right RCA/Phono inputs on either Channel 5 or 6 of the GigRac. Turn up the Main Master Volume control **(1)** to about halfway, and then turn up the Main Volume control **(6)** on the chosen channel until you hear the signal appearing in the loudspeakers.

Connect up the Left and Right outputs of your Stereo Keyboard to the Left and Right Jack inputs on either Channel 7 or 8 of the GigRac. Set the volume control of your keyboard to about halfway. Turn up the Main Master Volume control **(1)** to about halfway, and then turn up the Main Volume control **(6)** on the chosen channel until you hear the signal appearing in the loudspeakers.

You may now use the Treble, Mid and Bass controls as mentioned above to change the tone of the signals.

5. Apply one of the 10 GigFX digital effects to the signals

The GigRac's GIGFX Processor **(14)** has a choice of 10 studio quality digital effects that can be added to any individual or group of signals running through the mixer. Usually vocals require some digital reverb or echo to be added to them in order to create a more spatial sound that is pleasing to the listener.

Make sure the 'effects On' button **(15)** is selected.

To try this out simply select one of the 10 GigFX presets, such as Hall Reverb, using the selector knob **(16)**.

Turn the 'FX to Main' control **(17)** to about halfway and then gradually turn up the individual 'FX' send control **(18)** on the channel you wish to add the effect to. As you turn up the 'FX' send level you should hear the signal change.

By pressing the 'effects On' **(15)** switch to the off position you can compare the original 'dry' signal with the 'wet' effect signal.

You can now turn the selector knob **(16)** to select different types of effects for comparative purposes.

A Note on Channel Use



Channels 1-4 are the most sensitive. It is better to use these channels for microphones (particularly if your microphones are fitted with jack plugs), and guitars with passive pickups. It is likely that you will need to have the pad buttons pressed in if you use mics fitted with XLRs.

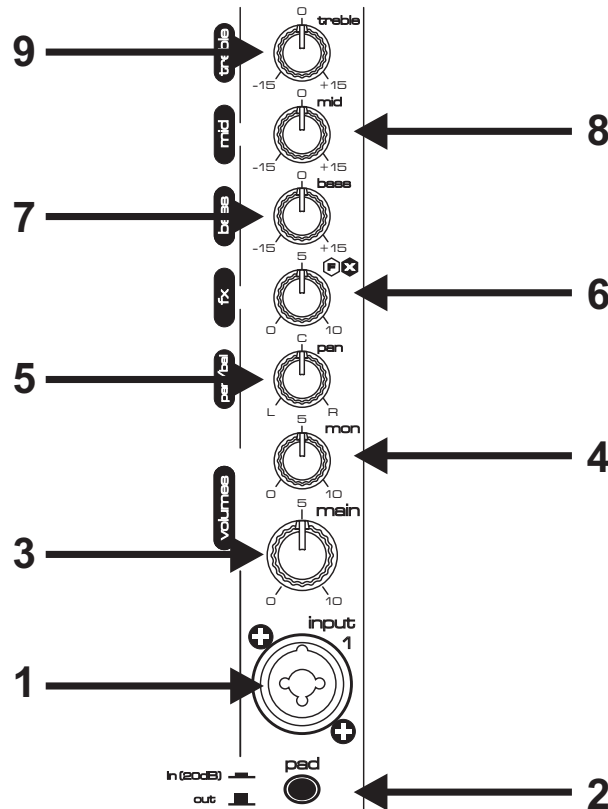


Channels 5-8 are less sensitive, they are ideal for line-level devices such as keyboards, CD players and tape players. They will also work with guitars with active pickups. Microphones fitted with XLRs will also work (unless they need phantom power).

Front Panel

Input channel

The GigRac 1000st has a total of 8 channels. Channels 1-4 are designed to handle mono microphone or mono line level signals only. Channels 5-8 are designed to handle mono microphone and stereo line level signals but will also accommodate mono line-level signals as well.



(1) Input Connector

This connector is a combination Jack/3 Pin XLR connector and can receive any of the following types of input connectors:

- Microphone cables with Jack connectors
- Microphone cables with 3 pin XLR connectors
- Line input cables with Jack connectors (e.g. guitars, keyboards etc.)
- Line input cables with 3 pin XLR connectors.

(2) PAD switch (Channels 1-4 only)

Pressing the PAD switch reduces the input level by 20dB allowing line or mic level signals that would normally be too loud for the Input stage to handle to be connected without any audible distortion.

(3) Main Volume Control

The Main Volume Control determines the amount of level sent from the channel to the main output mix.

This allows each channel's relative volume level to be 'blended' together to create the final mix whose overall level is then controlled by the Main Master Volume control **(10 - see the master section)**.

(4) Mon Volume Control

The Monitor (Mon) Volume Control determines the amount of level sent from the channel to the Monitor (Mon) Output **(23)**.

This allows each channel's relative volume level to be 'blended' together to create a separate monitor mix whose overall level is then controlled by the Mon Master Volume control **(11 - see the master section)**. This feature is used mainly for creating a 'foldback' mix for the musicians and would normally be sent to a monitor speaker with its own amplifier. (This could also be used for creating a headphone mix).

The Mon Volume Control operates independent of the Main Volume Control and will therefore not be affected if the Main Volume Control is turned up or down. (For the more technically minded, the signal is sourced Pre-Fader and Post EQ, see the block diagram for signal routing details.)

(5) PAN/Balance Control

This allows you to position the signal within the stereo image or, in the case of stereo signals, to balance the level of the signals between the L and R speakers.

(6) FX Control

The FX Control determines the amount of level sent from the channel to the GigFX digital effects processor and also to the 'FX Bus output' connector **(24)**.

This allows each channel's relative level to be 'blended' together to create a separate effects mix whose overall level is then controlled by the 'FX to Main' **(28 - see the master section)** and 'FX to Mon' **(29)**.

The FX Bus Output connector could also be used to connect to other external devices such as effects processors or recorders.

(7) Bass Control

The Bass Control is set at 80Hz and allows you to either add or remove the low frequency content of the signal by 15dB.

Rotating the control clockwise will 'boost' the signal, rotating the control anticlockwise will 'cut' the signal.

This control is useful for adding more 'thump' to low frequency signals such as bass guitars and kick drums but can also be used to remove unwanted rumble or boominess from signals such as vocal or instrument microphones.

(8) Mid Control

The Mid Control is set at 600Hz and allows you to either add or remove the high frequency content of the signal by 15dB.

Rotating the control clockwise will 'boost' the signal, rotating the control anticlockwise will 'cut' the signal.

This control is useful for adding 'body' to drums, bass guitars or percussion but can also be used to remove 'boxy' resonant frequencies from acoustic guitars and other signals.

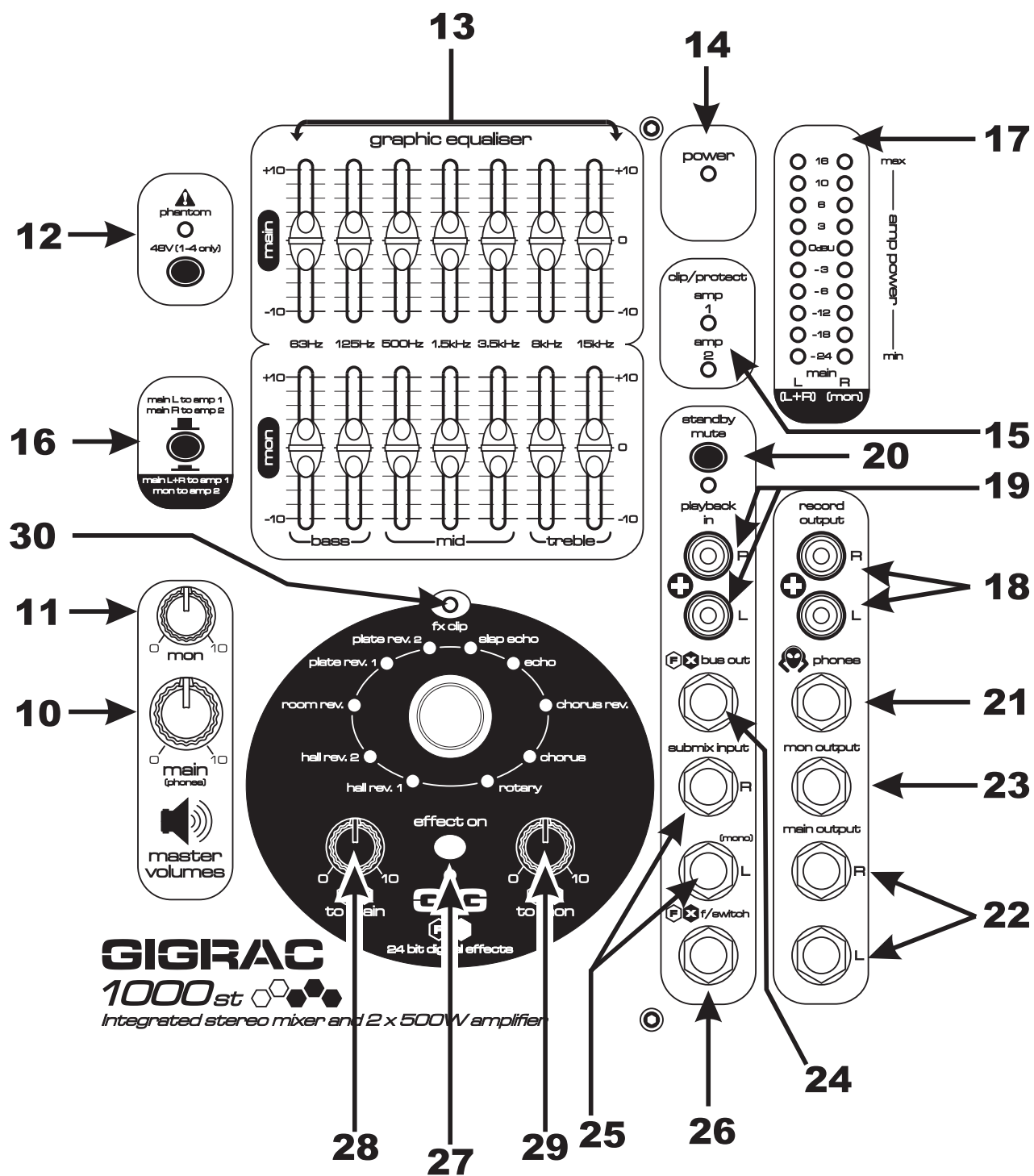
(9) Treble Control

The Treble Control is set at 12kHz and allows you to either add or remove the high frequency content of the signal by 15dB.

Rotating the control clockwise will 'boost' the signal, rotating the control anticlockwise will 'cut' the signal.

This control is useful for adding 'crispness' or 'sizzle' to signals with a lot of high frequency content such as guitars and cymbals but can also be used to remove unwanted sibilance from signals such as vocals.

Master Section



(10) Main Master Volume Control

This control determines the overall level that is sent to the internal amplification and to the Main Output sockets **(22)**. It also controls the volume of the headphone socket **(21)**.

(11) Mon Master Volume Control

This control determines the overall level that is sent to the Monitor Output (Mon Output) socket **(23)**.

(12) Phantom 48V Switch

This switch turns the 48v phantom power On/Off for the 3 pin XLR sockets on channels 1-4. When the switch is turned On the red LED will illuminate.

48V phantom power is used to power condenser microphones and DI boxes.

NB! To avoid possible damage to your loudspeakers, make sure that the Main and Monitor Master Volume controls are turned down fully before switching on the 48V phantom power.

(13) Graphic Equalisers

The Graphic Equalisers are divided into 7 frequency bands. Each frequency band can be used to either 'cut' or 'boost' the Main Output signal by up to 10dB. One is in the main (stereo) path, the other is in the monitor path.

They are very useful for compensating for poor room acoustics or improving the performance of your loudspeakers.

(14) Power LED

The red Power LED illuminates when the GigRac is switched on.

(15) Amp Clip LEDs

The red Amp Clip LEDs illuminate when the input levels to the internal amplifiers are too high. It is acceptable for these LEDs to come on momentarily every now and then but the Main or Monitor Master Volume (depending on which signals have been routed to the amplifiers: see **(16)** below) should be turned down if the Amp Clip LEDs illuminate consistently.

NB! Continued use of the GigRac with the Amp Clip LED illuminated could cause serious damage to your GigRac and your loudspeakers!

(16) Internal Amplifier Source Select Switch

This switch determines which signals are routed to the internal power amplifiers. The options are: Main L to amp 1, and Main R to amp 2, or, Main L + R to amp1, and monitor to amp 2. See the diagram opposite.

(17) Main Output Meters

The dual 10-segment output meters show the signal levels being fed to the internal power amplifiers. See **(16)** above.

It is best to aim to have the red 10dB LEDs lighting up regularly during the loudest signals peaks playing through your GigRac and the 16dB LEDs flicking on very occasionally. This will ensure that a good level is passing through the mixer.

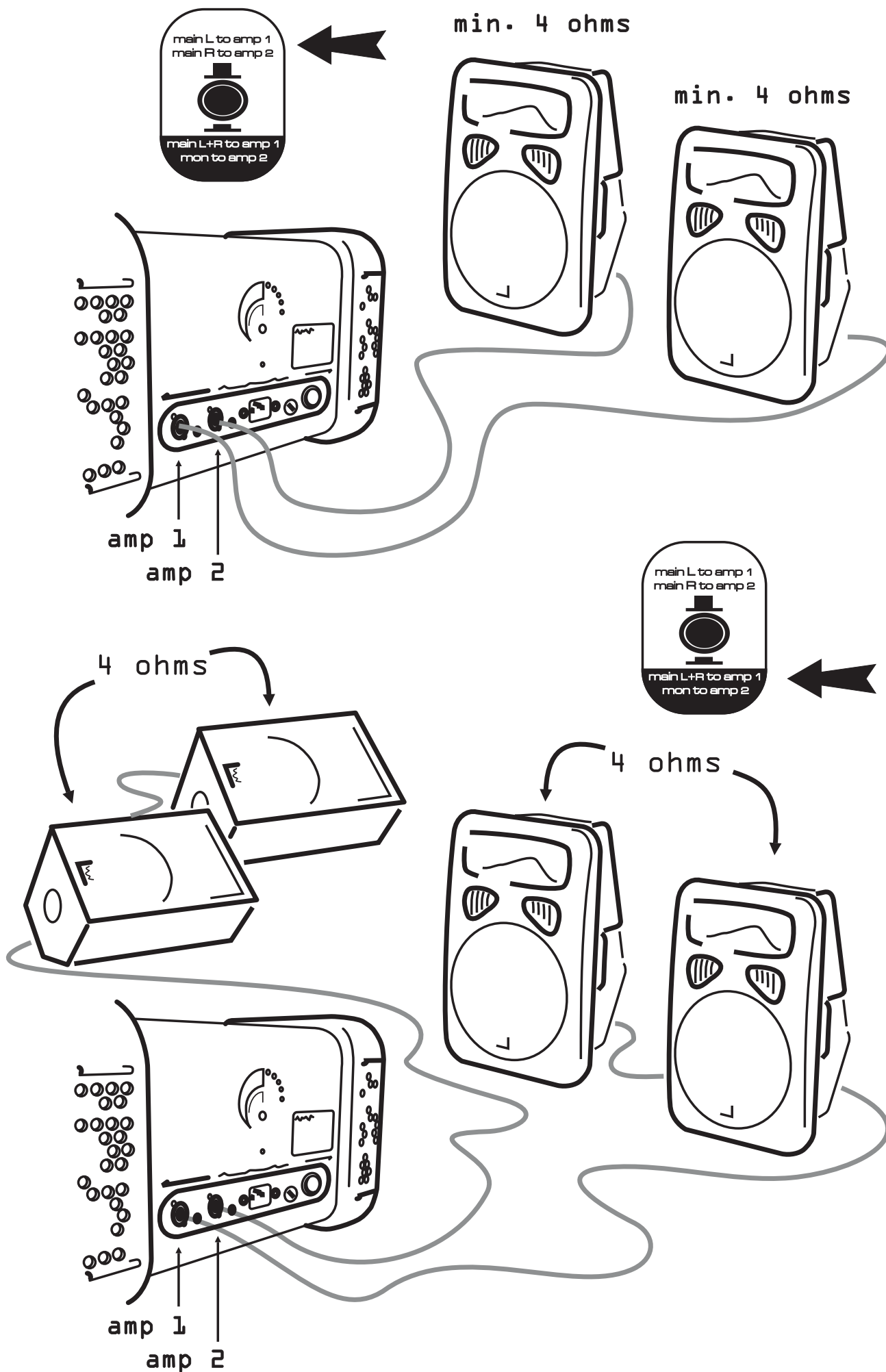
(18) Record Outputs

The Record Outputs (L & R) are for connecting a recording device such as a cassette or mini disk recorder.

The signal output at the Record Output sockets is a post fade signal derived from the Main Mix outputs. The amount of signal level leaving the GigRac via the Record Outputs is determined by the Main Master Volume control **(10)**.

(19) Playback In

The Playback In connectors allow you to playback from your recording device through the Main outputs/Speakers/Headphones. A useful tip is to press the standby mute switch **(20)**, this mutes all other inputs to



the GigRac and allows the playback in signal to be heard without interference from other signal sources.

(20) Standby Mute Switch

This switch mutes all inputs to the GigRac except for the signal from the playback in connectors. It also mutes the FX Bus Output and the Monitor Output. The red LED illuminates when the mute is active. See the block diagram for signal routing details.

(21) Phones Output

Connect headphones to the Phones Output. The Phones Output is driven from the main L and R signals. The overall volume of the headphones output is determined by using the Main (Phones) Master Volume control **(10)**.

(22) Main Outputs

The Main Outputs carry the Main Mix L and R signals after they have passed through the Main Master Volume control and the Graphic Equaliser. These outputs can be used to send the Main Mix to other amplifiers or powered speakers or alternatively it can be used to send a 'submix' to another mixer's input channel or another recording device.

(23) Mon Output

The Mon Output carries the Monitor Mix signal derived from the Mon controls on each channel. The Mon output level is controlled by the Mon Master Volume control **(11)**. The signal also passes through the Monitor Graphic Equaliser. This output is used mainly to send the Mon Mix signal to an on stage fold back speaker system of some kind.

(24) FX Bus Output

The FX Bus Output carries the FX Mix signal as derived from the FX controls on each channel. This allows additional external effects processing devices to be used in conjunction with the GigRac's built in GigFX digital effects processor.

(25) Submix Inputs

The Submix Inputs (L & R) allow the output from another mixer to be blended with the Main Mix Outputs of the GigRac. These inputs could also be used for connecting an effects return signal from an external effects processing device.

(26) FX Bypass Footswitch

The FX Bypass Footswitch socket is used for connecting an optional foot switch to turn the GigFX processor On and Off.

(27) Effect on switch

The effect on switch has a toggle action, the adjacent LED indicates when the FX unit is on.

(28) FX to Main Control

This controls the volume of Effects sent to the main mix.

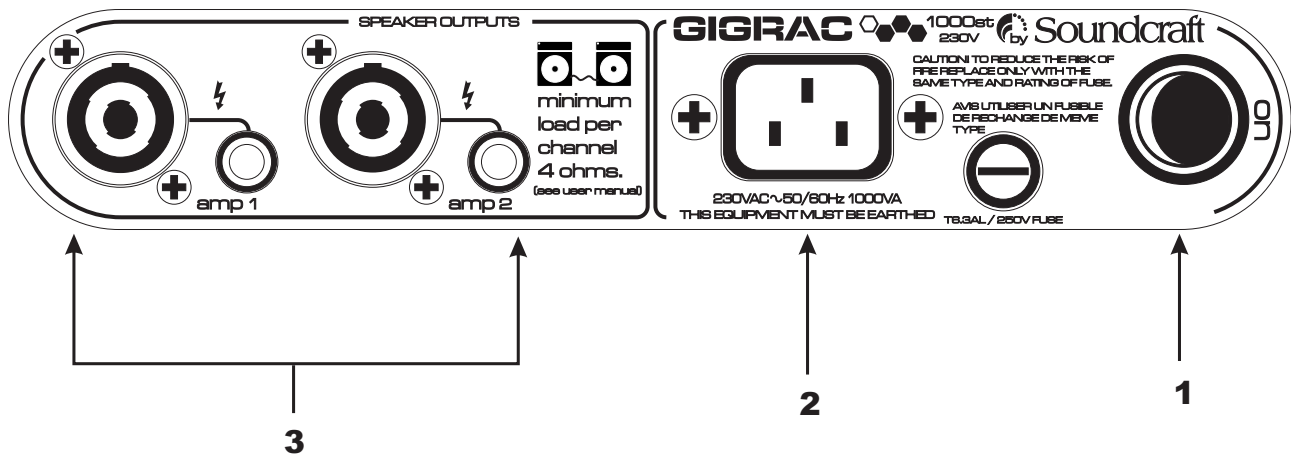
(29) FX to Mon Control

This controls the volume of Effects sent to the monitor mix.

(30) FX Clip LED

This illuminates when the signal level being fed to the GigFX processor is too high.

Rear Panel



(1) Power Switch

This switch turns the GigRac On or Off. The red Power LED **(14)** on the front panel will illuminate to confirm this.

NB! Before switching the GigRac On or Off, make sure that the Main and Mon Master Volume controls are turned fully down.

(2) Power Socket

Connect the supplied power cable to this socket.

(3) Speakers Outputs (Amp 1 and Amp 2)

The Speaker Outputs are available as Neutrik Speakon® connectors and standard ¼" Jack connectors.

The minimum load that either of the amplifiers inside the GigRac 1000st should be presented with is 4 ohms. this means that a single 4 or 8 ohm speaker can be connected to each amplifier outputs as shown in Fig 1. Alternatively, two 8 ohm speakers can be connected in parallel to each amplifier output, as shown in Fig 2. Two speakers connected like this gives a combined load of 4 ohms.

Use the appropriate connector type to match the input connectors on your loudspeakers. The GigRac 1000st is designed to work with loudspeakers rated at either 8 ohms or 4 ohms.

Connect your loudspeakers to these outputs. The signal sent to the Speakon® connectors and the Jack sockets is exactly the same.

Fig. 1

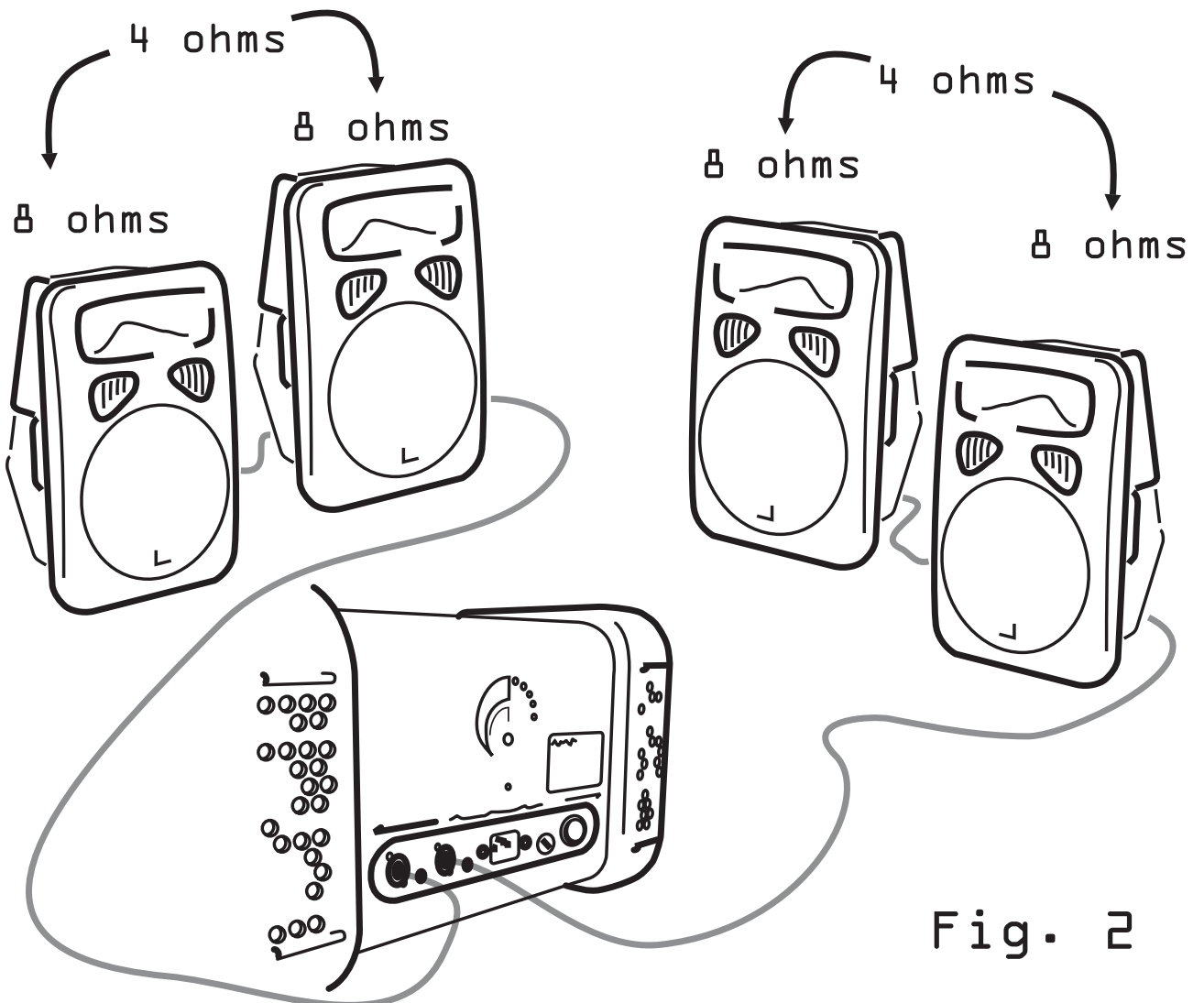
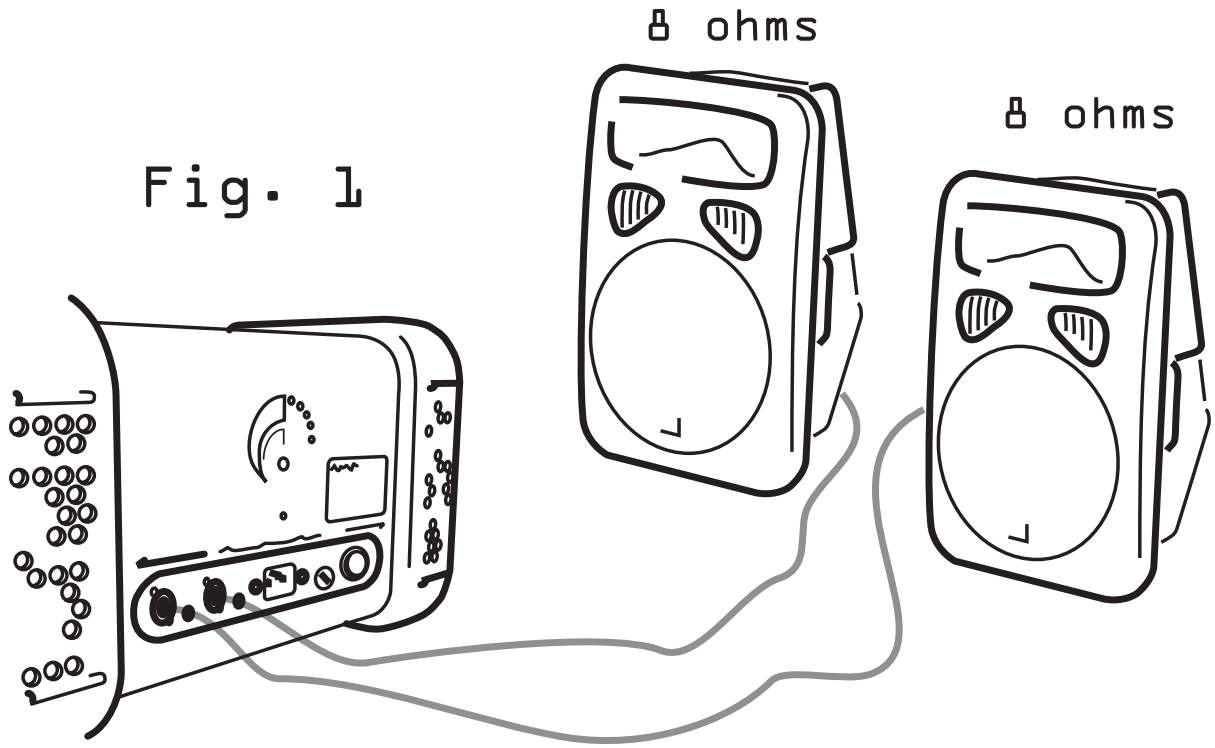
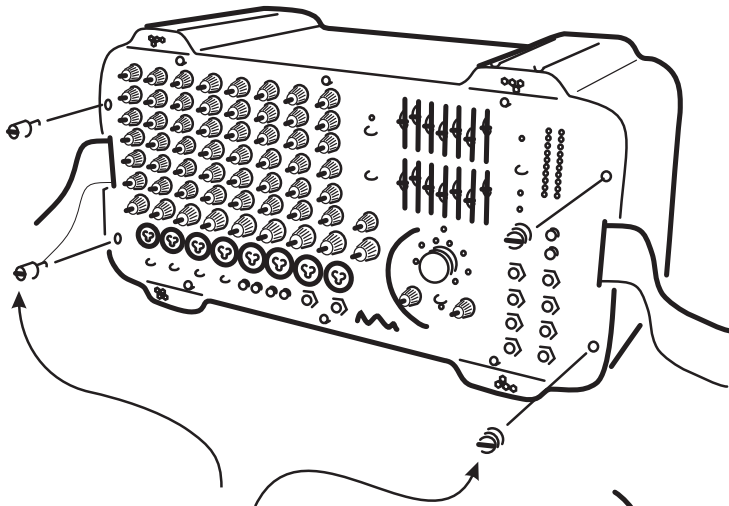


Fig. 2

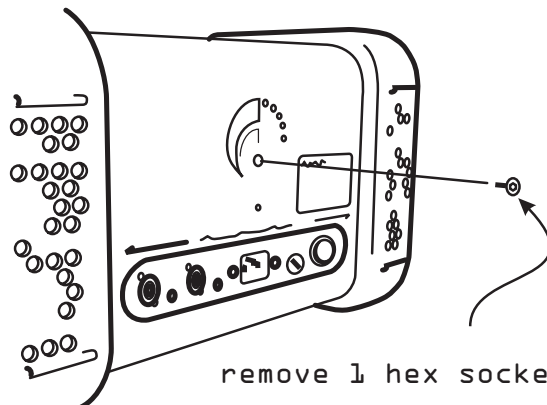
Rackmounting Your GigRac

The GigRac 1000st can be rack mounted into a standard 19" rack. This is useful for fixed instalations or for applications where the GigRac might need to be installed into a portable 19" rack along with other equipment.

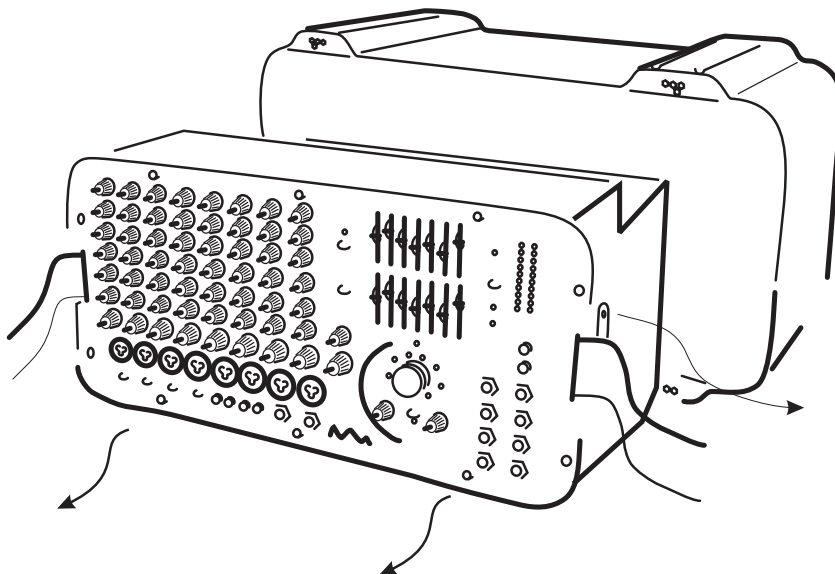
Caution: leave a free 1U space above the Gigrac to allow internal heat to escape.



remove 4 rack bolts



remove 1 hex socket screw



remove gigrac from case.
Remove 4 screws that secure strap to
side panels and remove strap.
Gigrac is now ready for rack mounting.

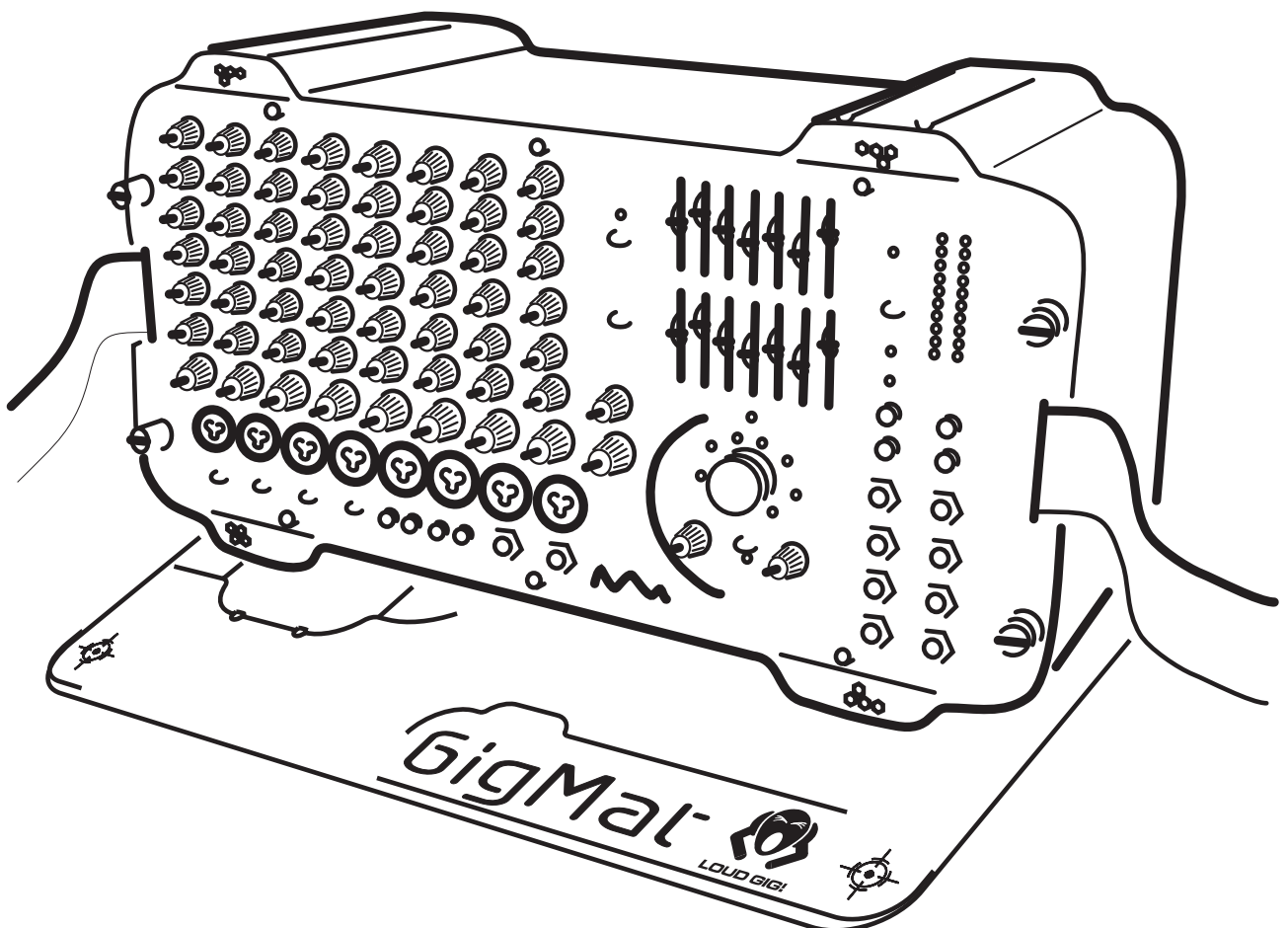
Using your GigMat

GigRac comes supplied with a unique non-slip 'GigMat' which can be placed underneath the GigRac when it has to be put onto a slippery surface such as a shiny table top.

Under normal circumstances the GigMat will prevent the GigRac from slipping around.

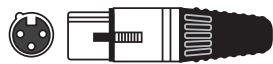
If necessary the GigMat can be cleaned using a damp cloth.

Please note - it is very important that the GigMat only be used on level surfaces.

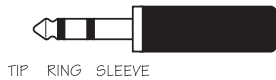


Connectors and Leads

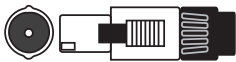
Audio Connectors Used With Gigrac



XLR



3-pole 1/4" (A guage TRS) jack



Speakon®



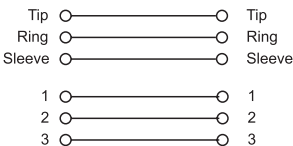
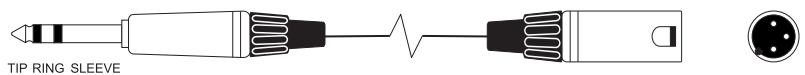
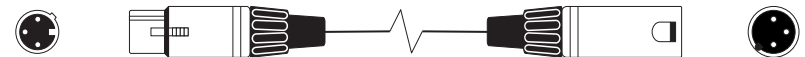
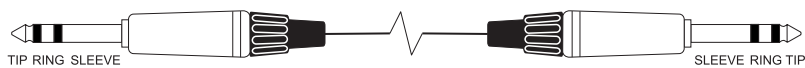
RCA phono



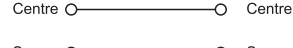
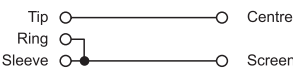
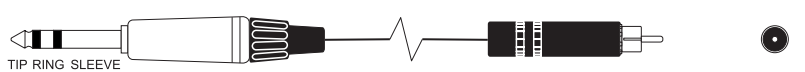
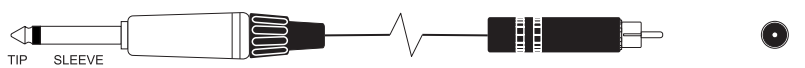
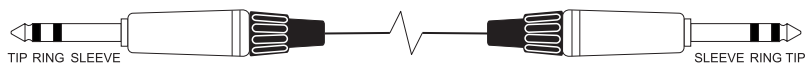
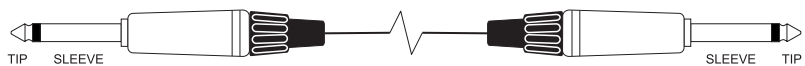
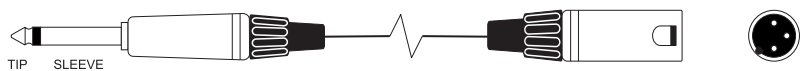
2-pole 1/4" (A guage TS) jack

Details Of Audio Connecting Leads That You May Wish To Use

Balanced

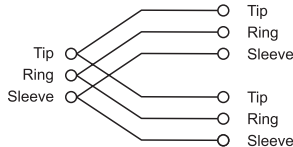
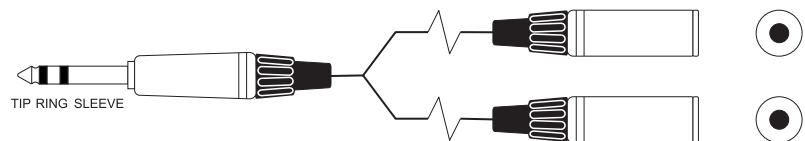


Unbalanced

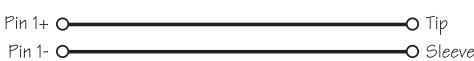
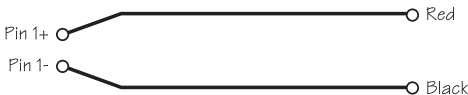
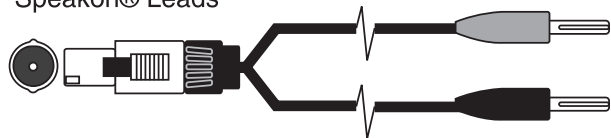


Headphone Separator

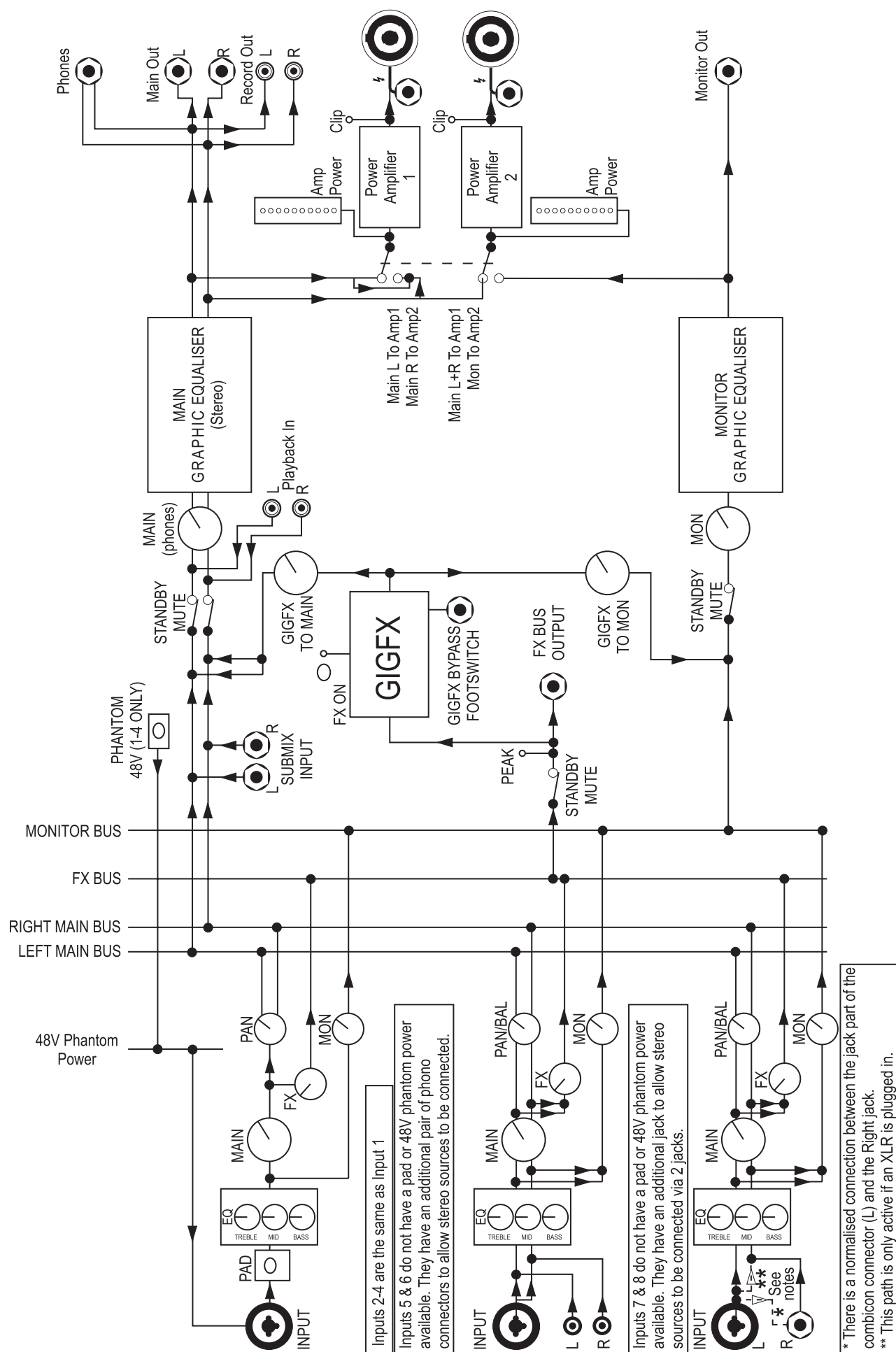
Note: for every doubling of headphones the load impedance is halved. Do not go below 200 ohms (Ω).



Speakon® Leads



Block Diagram



Warranty

- 1 Soundcraft is a trading division of Harman International Industries Ltd .
End User means the person who first puts the equipment into regular operation.
Dealer means the person other than Soundcraft (if any) from whom the End User purchased the Equipment, provided such a person is authorised for this purpose by Soundcraft or its accredited Distributor.
Equipment means the equipment supplied with this manual.
- 2 If within the period of twelve months from the date of delivery of the Equipment to the End User it shall prove defective by reason only of faulty materials and/or workmanship to such an extent that the effectiveness and/or usability thereof is materially affected the Equipment or the defective component should be returned to the Dealer or to Soundcraft and subject to the following conditions the Dealer or Soundcraft will repair or replace the defective components. Any components replaced will become the property of Soundcraft.
- 3 Any Equipment or component returned will be at the risk of the End User whilst in transit (both to and from the Dealer or Soundcraft) and postage must be prepaid.
- 4 This warranty shall only be valid if:
 - a) the Equipment has been properly installed in accordance with instructions contained in Soundcraft's manual; and
 - b) the End User has notified Soundcraft or the Dealer within 14 days of the defect appearing; and
 - c) no persons other than authorised representatives of Soundcraft or the Dealer have effected any replacement of parts maintenance adjustments or repairs to the Equipment; and
 - d) the End User has used the Equipment only for such purposes as Soundcraft recommends, with only such operating supplies as meet Soundcraft's specifications and otherwise in all respects in accordance with Soundcraft's recommendations.
- 5 Defects arising as a result of the following are not covered by this Warranty: faulty or negligent handling, chemical or electro-chemical or electrical influences, accidental damage, Acts of God, neglect, deficiency in electrical power, air-conditioning or humidity control.
- 6 The benefit of this Warranty may not be assigned by the End User.
- 7 End Users who are consumers should note their rights under this Warranty are in addition to and do not affect any other rights to which they may be entitled against the seller of the Equipment.

Specifications

NOISE

| | |
|----------------------------|----------|
| EIN 150 ohms 20 - 22kHz | -123 dBu |
| Main out Level control mid | -78 dBu |
| Mon out Level control mid | -80 dBu |
| Amp out | -57 dBu |

CROSSTALK

| | |
|---|--------------|
| Main cutoff | -80 dB |
| Mon cutoff | -80 dB |
| Frequency Response | |
| 20 - 22Khz rel 1kHz Line in to Main out | +0.2/-2.5 dB |

THD+N

| | |
|---|--------|
| Mic i/p -20dB Pad 0dBu I/P at Main out (22Hz-22kHz) | 0.15 % |
| Mic i/p to Amp Out @ full power 22-22kHz | 0.15% |

INPUTS CH1 - CH4

| | |
|----------------------------|-----------|
| Mic Input Impedance | 5.5 kohms |
| Line Input Impedance | 30 kohms |
| Max Input Mic (20dB pad) | -3.5 dBu |
| Max Input Line(20dB pad) | 10 dBu |
| Max Mic gain to main out | 60 dB |

INPUTS CH5 - CH8

| | |
|--------------------------|-----------|
| Mic Input Impedance | 2.4 kohms |
| Line Input Impedance | 40 kohms |
| Max Input Mic | -18 dBu |
| Max Input Line | 3 dBu |
| Max Mic gain to main out | 50 dB |

OUTPUTS

| | |
|--------------------|----------------------|
| Max out main / mon | 18dBu |
| Power Output | 2 X 500W into 4 Ohms |

CONNECTORS

(All Jacks are 3 - pole ¼")

Mic: Balanced XLR combi connectors/ Balanced jack combi connectors

Line: Balanced Jack / combi connectors / Unbalanced RCA phono

FX bus output: Impedance Balanced Jack

Submix in: Unbalanced Jack

Main out: Impedance Balanced Jack

Mon out: Impedance Balanced Jack

Record out: unbalanced RCA phono

Phones: Jack

Speakers: Speakon (pins +1 and -1) and Jack

DIMENSIONS (WITH LID ON)

493mm x 267mm x 334mm (19.5" x 10.5" x 13.2")

WEIGHT

12kg/26.4lbs



Soundcraft

Harman International Industries Ltd

Cranborne House, Cranborne Road, Potters Bar, Herts, EN6 3JN, UK

TEL: +44 (0)1707 665000 FAX: +44 (0)1707 660742 EMAIL: info@soundcraft.com

Soundcraft USA

8500 Balboa Blvd., Northridge, CA 91329, USA

TEL: +1-818-920-3212 FAX: +1-818-920-3208 EMAIL: soundcraft-usa@harman.com

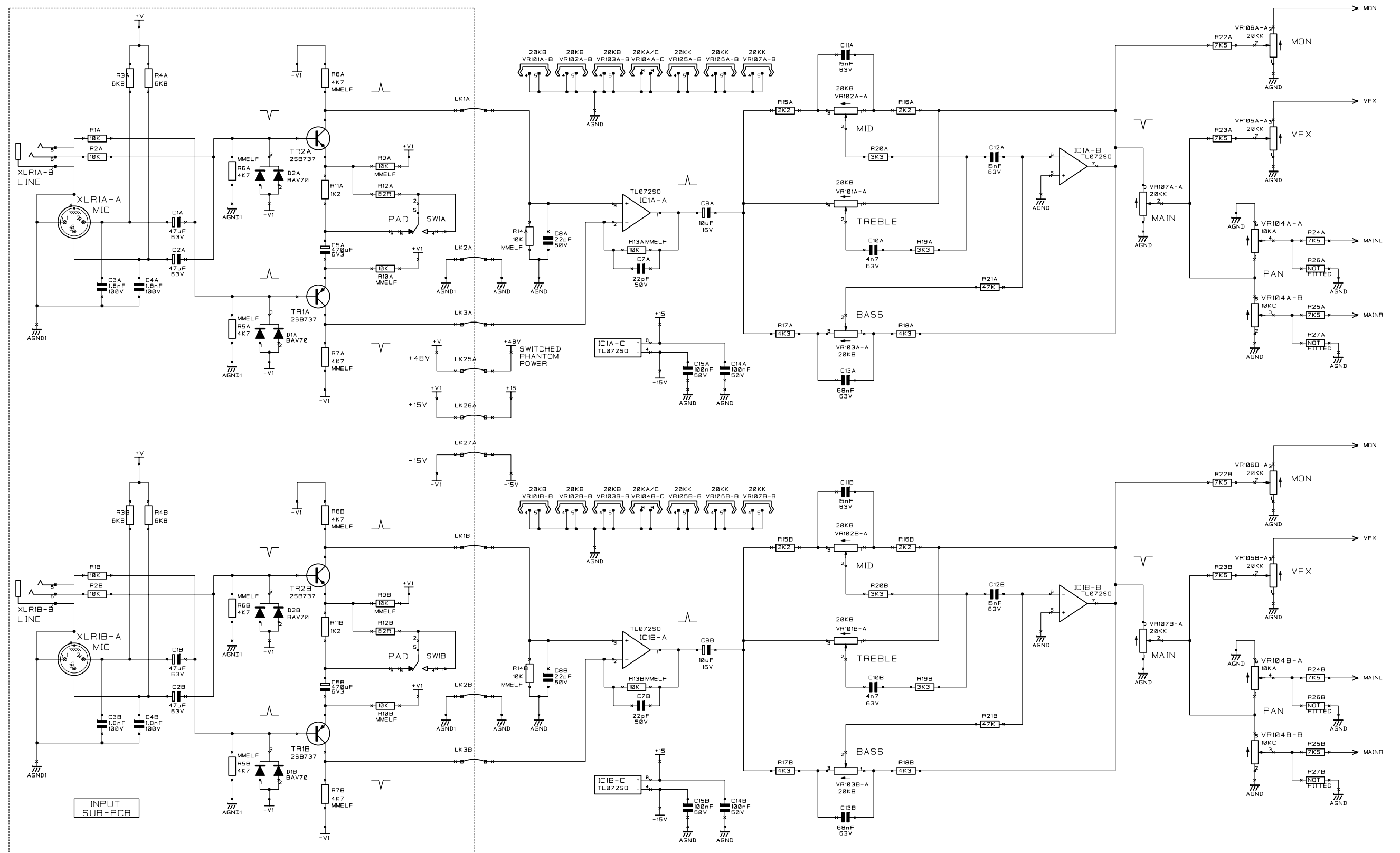
www.gigrac.com

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This equipment complies with the EMC Directive 89/336/EEC

H A Harman International Company

Circuit Diagrams

| | |
|------------------------|--------------------|
| Gigrac Main PCB | 2-3 to 2-13 |
| Lexicon FX | 2-14 |
| Power Supply | 2-15 |
| Power Amp | 2-16 |



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TEL: 01707 665000
FAX: 01707 660482

NOTES

01. PROTOTYPE RELEASE
02. PRE PRODUCTION RELEASE
02A. ECNH257 15/09/04

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| DRN. |
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DATE 11-02-04

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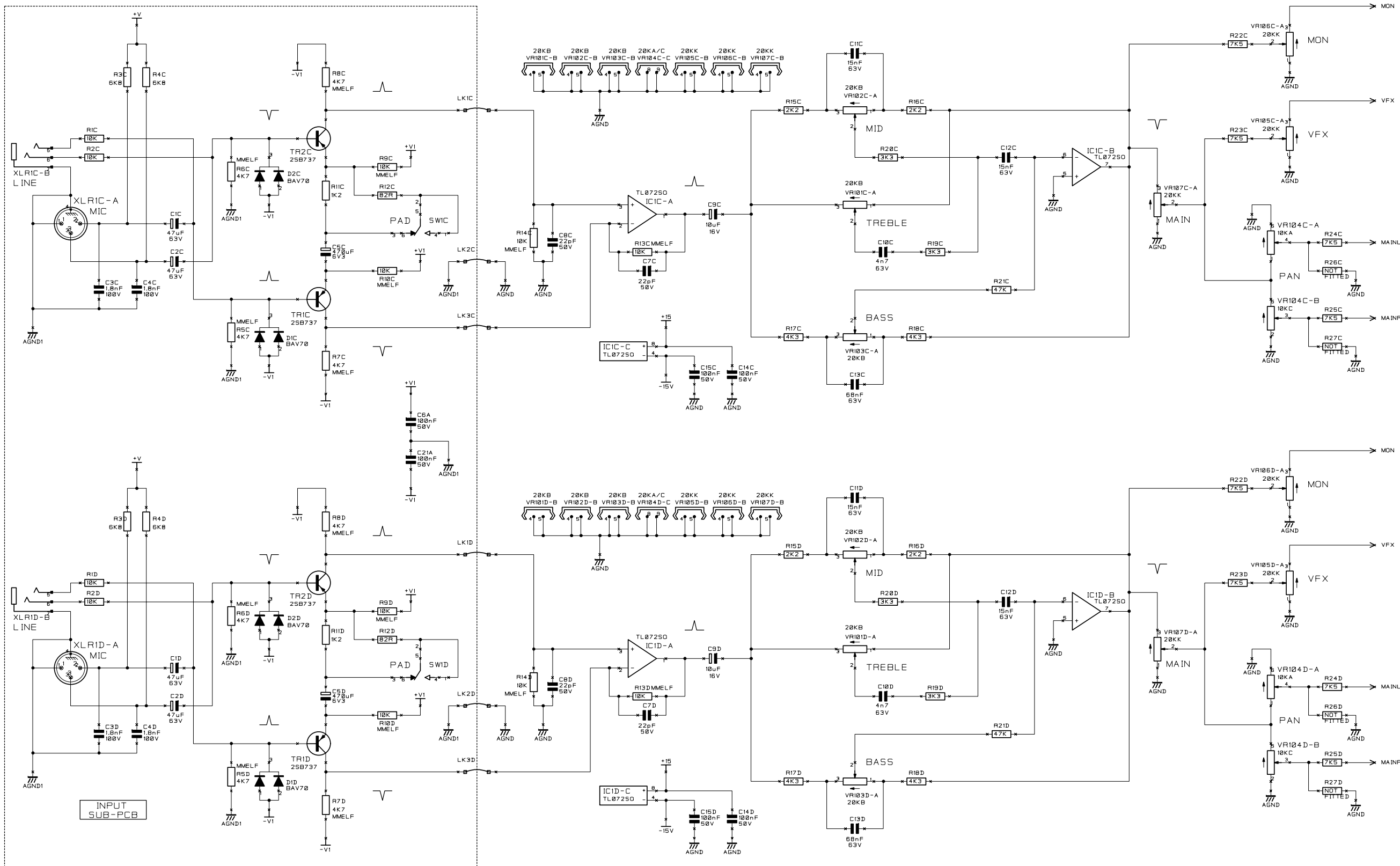
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Gigrac 1000st

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| DF | 11 |



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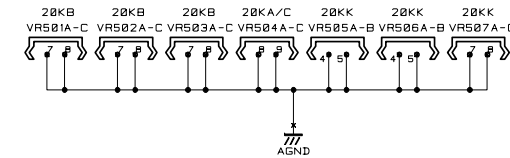
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- 02A. ECNH257 15/09/04

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| DATE | 11-02-04 | | | | |
| MASTER IF RED | | | | | |

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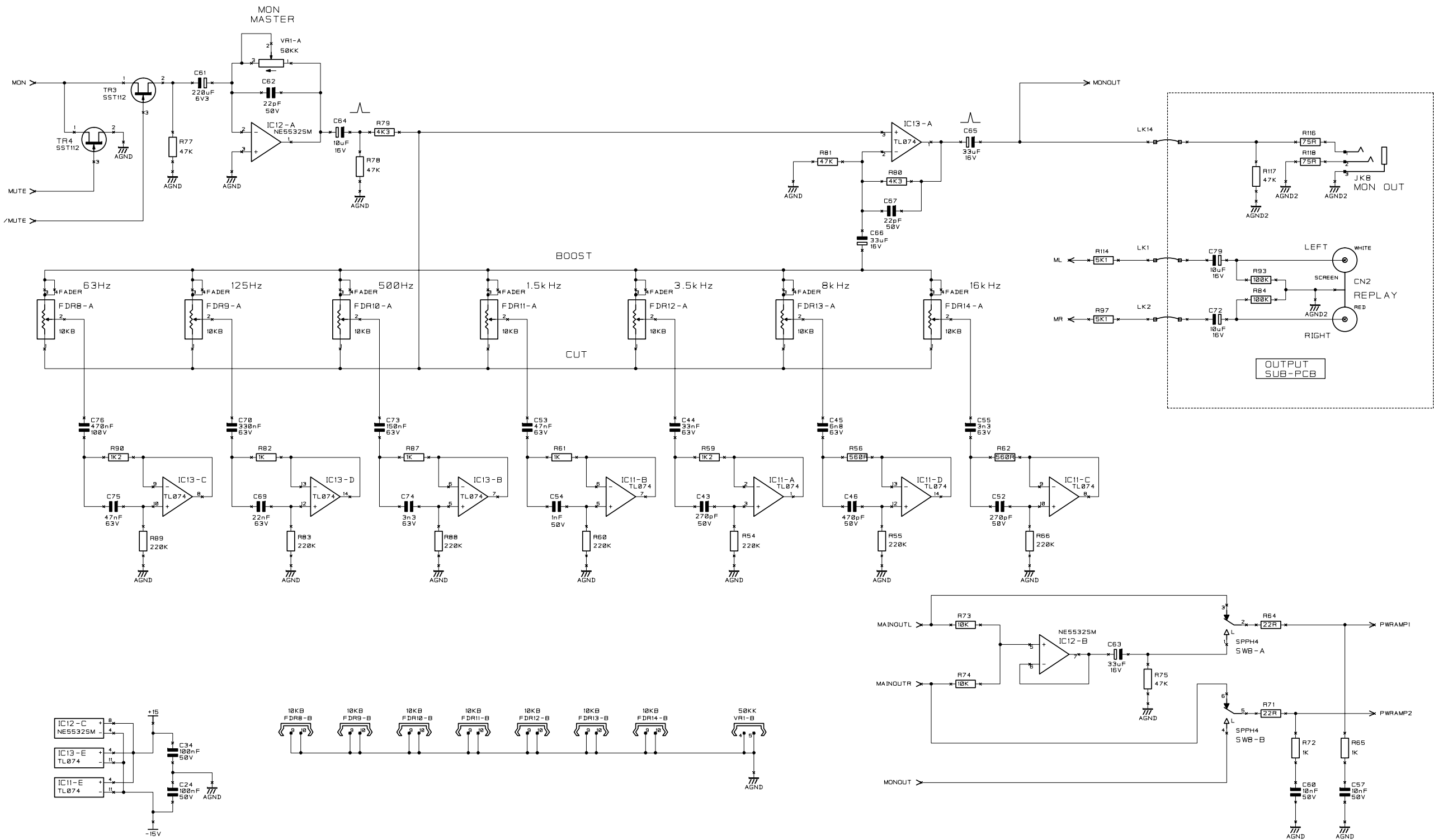
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OF 11



2 - 5

DRG NO.

MON MIX



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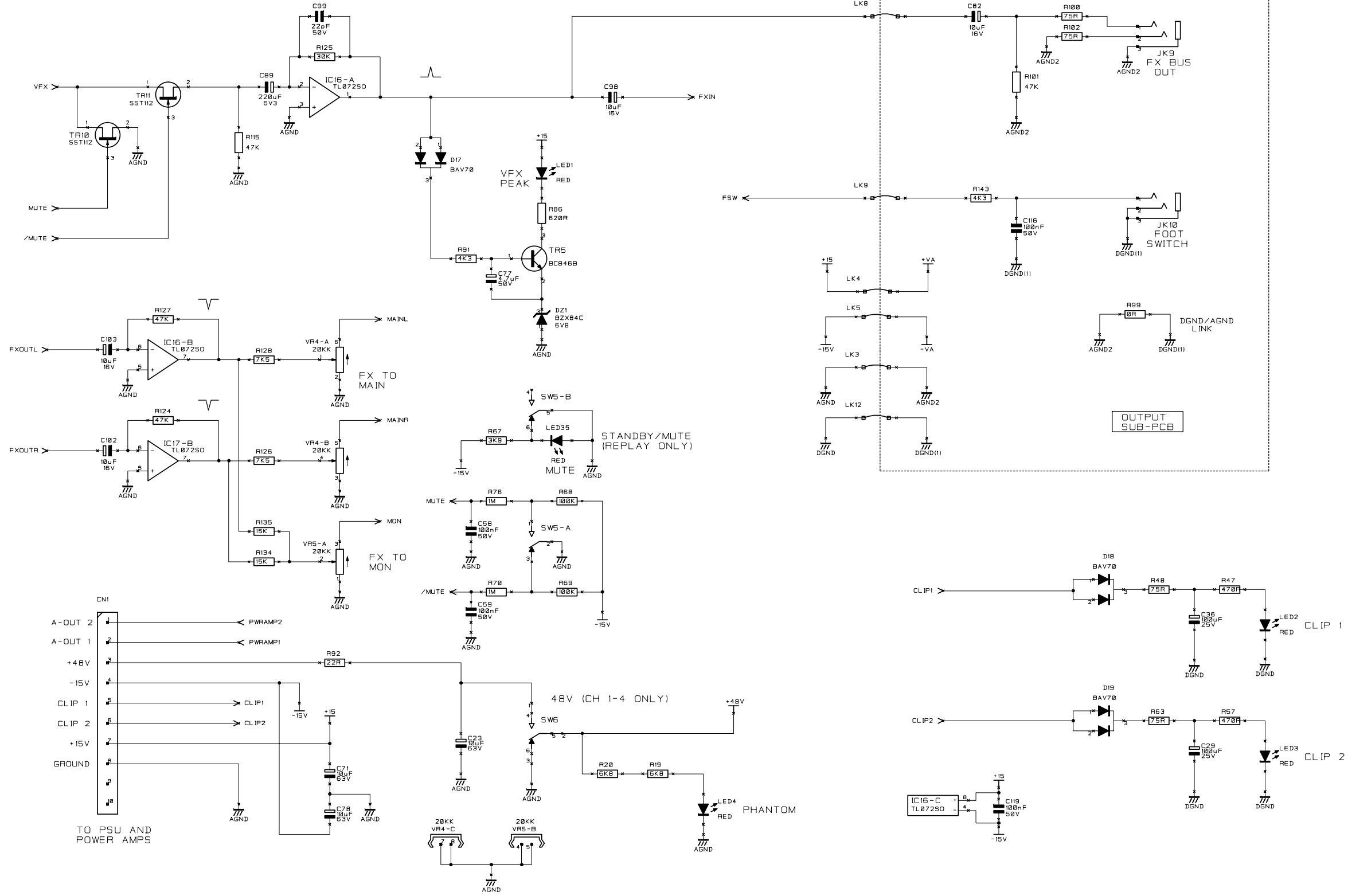
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| DATE | 11-02-04 | | | | |
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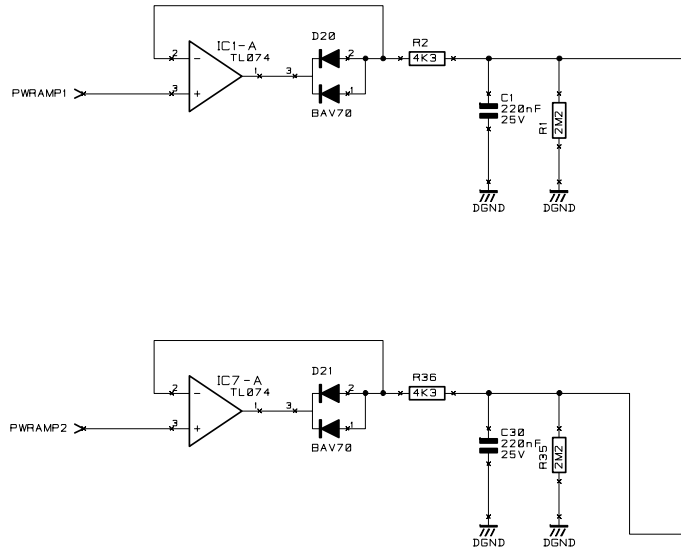
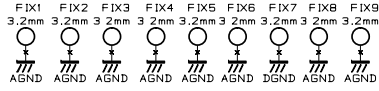
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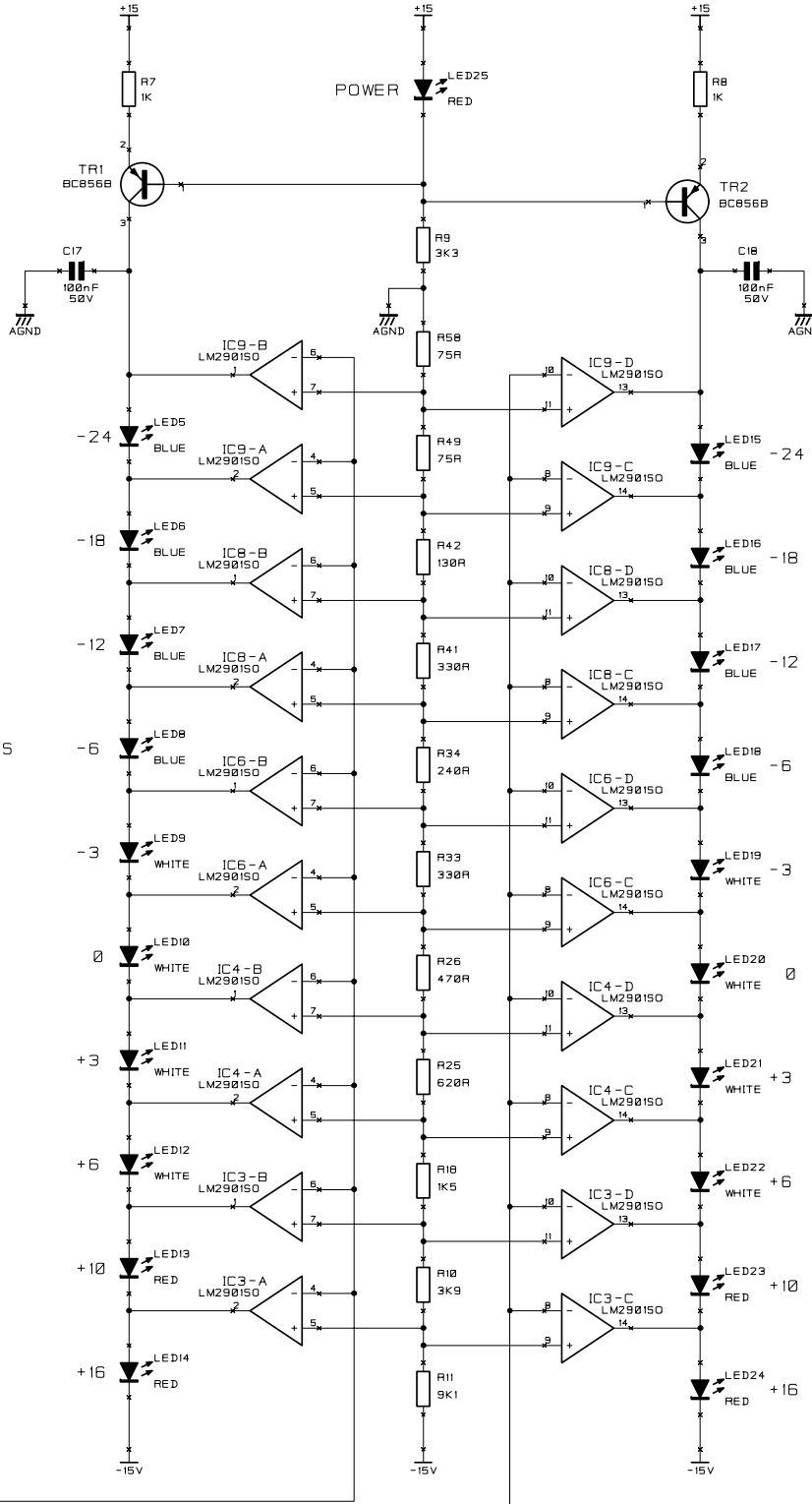


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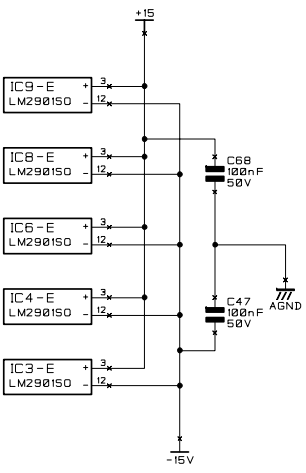
METERS



METERS
AMP 1



METERS
AMP 2



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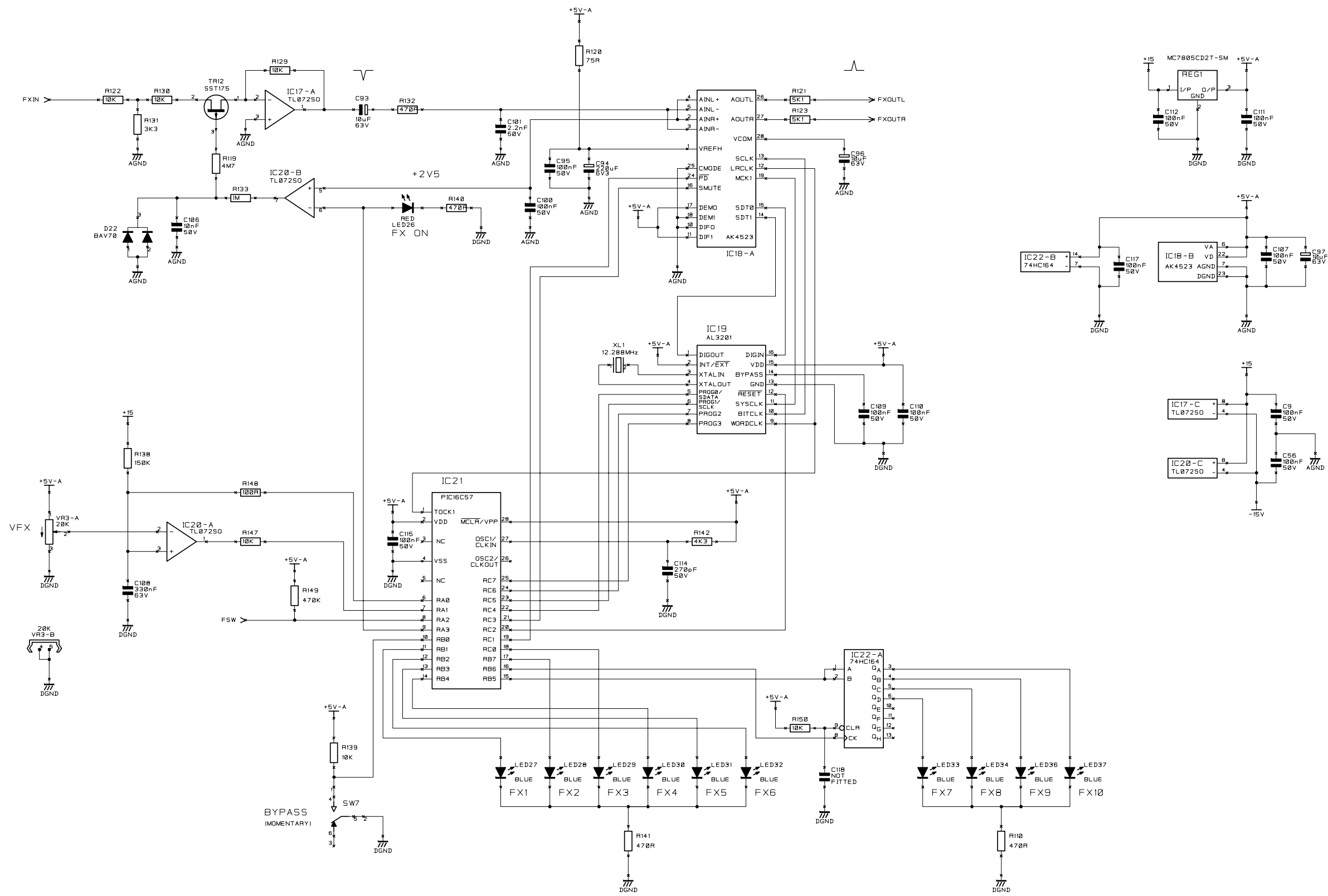
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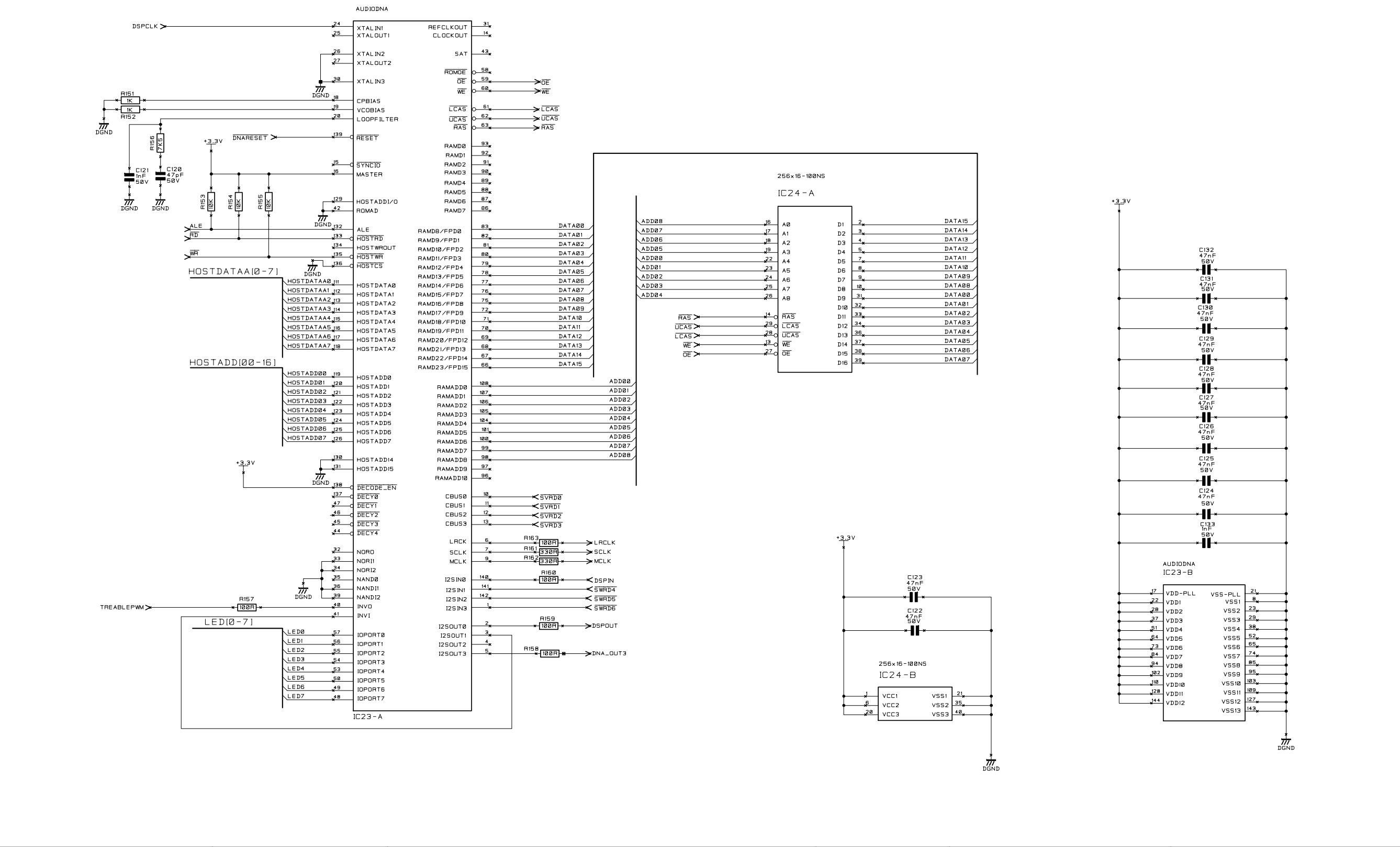
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Gigrac 1000st

DRG NO. E2017A-03

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OF 11





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| | | | MSW | | | | | | | |
| | | | DATE | | | | | | | |
| | | | 11-02-04 | | | | | | | |
| | | | MASTER IF RED | | | | | DRG NO. | E2017A-03 | SHT. OF |
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EN6 3JN
Tel 01707 660667
Fax 01707 660755

TITLE:

GIGRAC 1000 SMPS

SHEET 1 OF 1

FILENAME: S-S2017BS-03A.SCH

DRAWN: CN

DATE: 10/05/04

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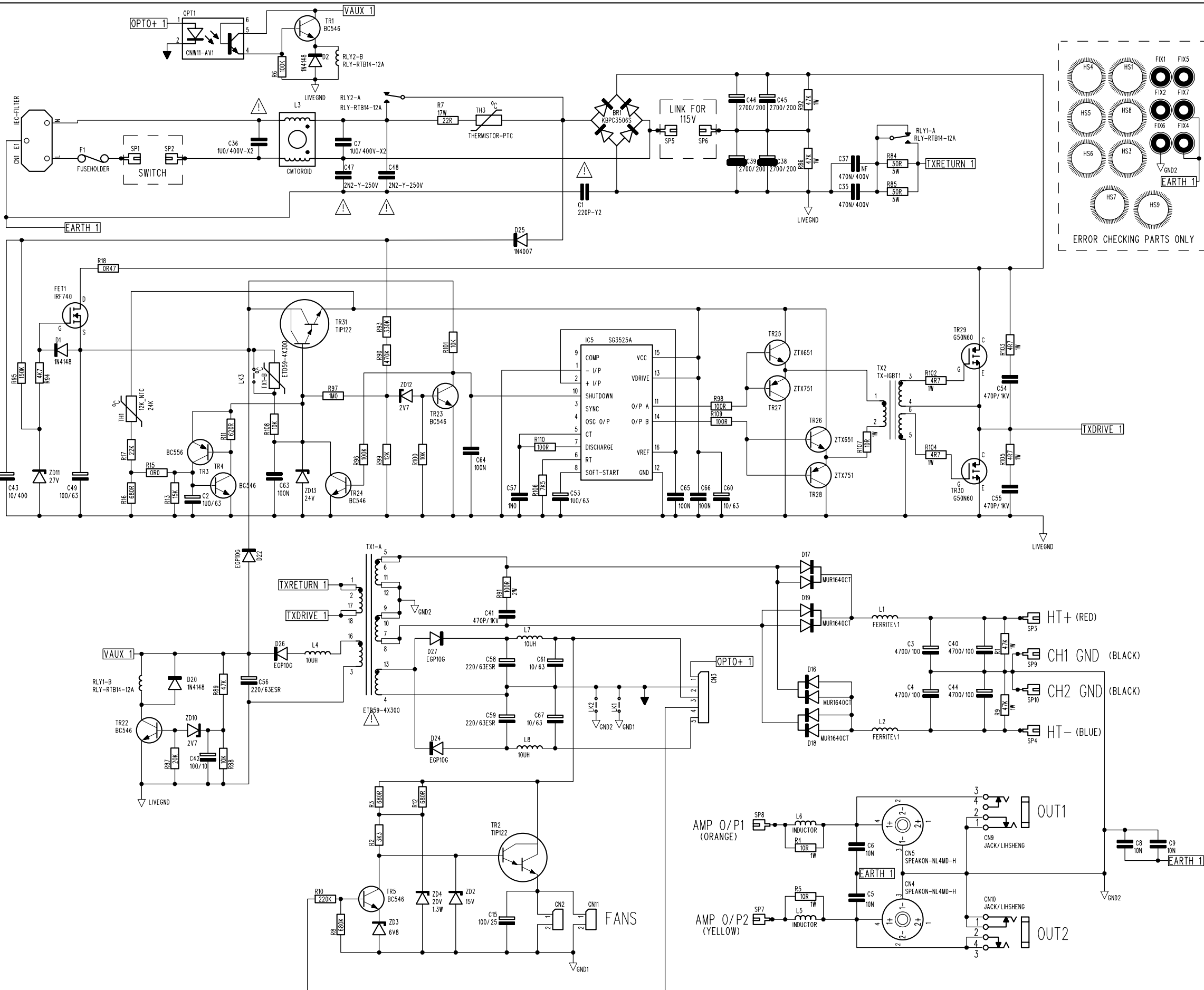
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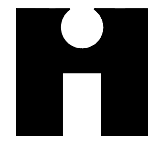
ISSUE COMMENTS:

1. PROTOTYPE RELEASE 12/03/04
2. EVALUATION RELEASE 19/05/04
3. PRODUCTION RELEASED TO CHINA
ECNH259 26/08/04
- 3A. ECNH263 06/09/04

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Tel 01707 660667
Fax 01707 660755

TITLE: GIG-RAC DUAL POWER AMP
CIRCUIT DIAGRAM

FILENAME: S-S2010BS-04.SCH

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| DRAWN: | BV |
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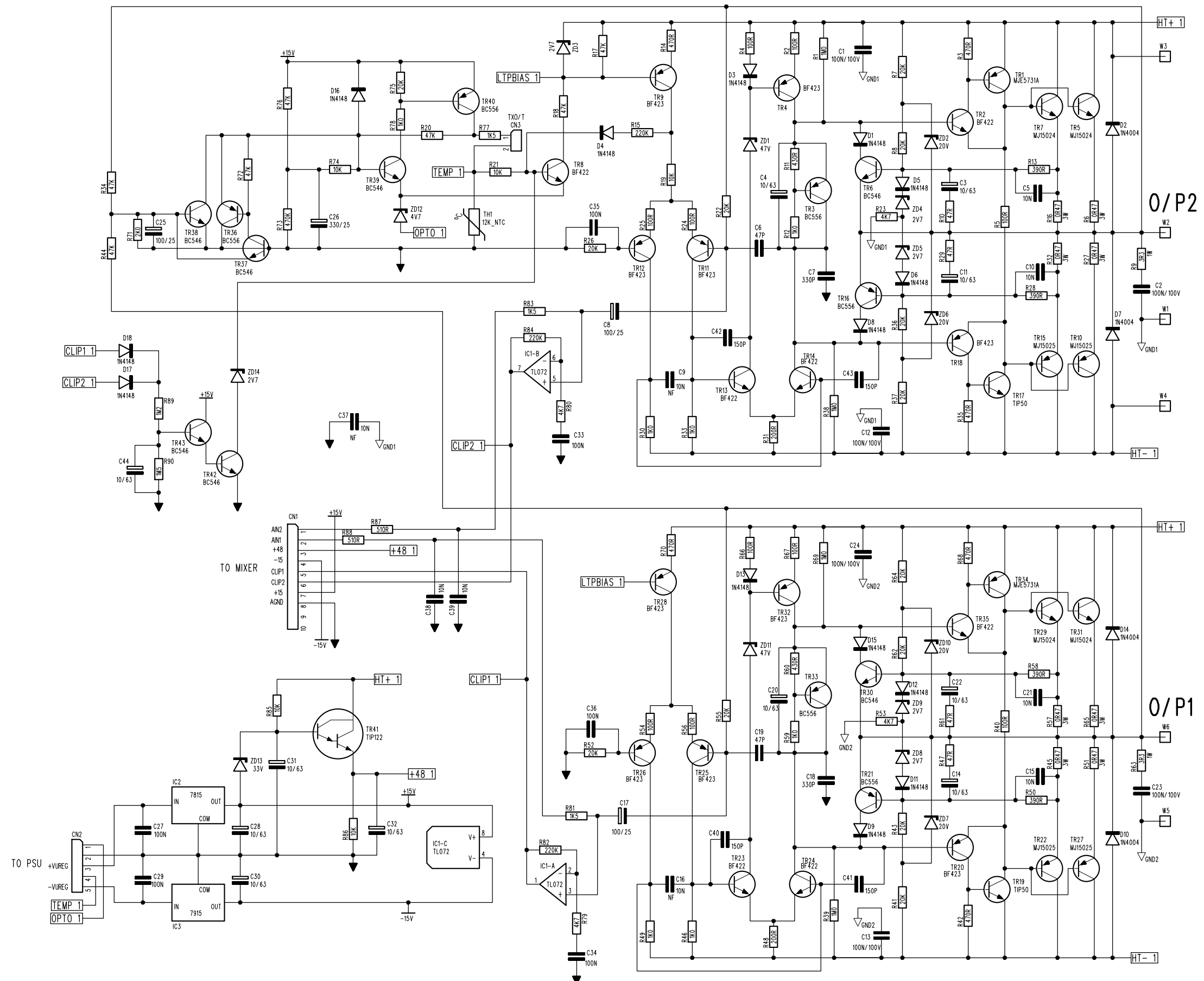
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ISSUE COMMENTS:

1. PROTOTYPE RELEASE 12/12/02
2. PRE-PRODUCTION RELEASE 24/06/03
3. PRODUCTION RELEASE 20/08/03
3A. ECN H020 19/02/04
4. ECNH166 07/06/04

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GIGRAC I000ST Spare Parts

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| GIGRAC I000ST JP | RW5673JP 3 |
| GIGRAC I000ST US | RW5673US 3 |
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| DUAL AMPLIFIER PCB ASSY. | R-S2010B-04-AF 11 |
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| PSU BOARD-GIGRAC I000 | R-S2017B-03-AF 18 |
| MISCELLANEOUS HARDWARE | 22 |

CONSOLES

GIGRAC I000ST AUS/NZ

Description Part Number
!CABLE POWER 7.5A,IEC.AUS.3PIN
LABEL-230V CONNECTOR GR1000
GIGRAC I000ST
LABEL-OUTER RW5673 EAN-13.
LABEL-INNER RW5673 EAN-13.
5X20MM T6.3AX250V(UL)FUSE

RW5673AZ

FJ8048
P-S2017J-01
RW5673
ZA0509
ZA0510
ZD0326

GIGRAC I000ST EU/UK

Description Part Number
!LEAD 10A IEC-UK 13A PLUGFSD
!LEAD 10A IEC SCHUKO PLUG
LABEL-230V CONNECTOR GR1000
GIGRAC I000ST
LABEL-OUTER RW5673 EAN-13.
LABEL-INNER RW5673 EAN-13.
5X20MM T6.3AX250V(UL)FUSE

RW5673EK

FJ8043
FJ8044
P-S2017J-01
RW5673
ZA0627
ZA0628
ZD0326

GIGRAC I000ST JP

Description Part Number
!LEAD 10A IEC US 3PIN PLGG
WIREFORM 115V LINK GIGRAC 900
LABEL-100V CONNECTOR-GR1000
GIGRAC ASSY I000 JP
LABEL-OUTER RW5673JP EAN-13
LABEL-INNER RW5673JP EAN-13.
!FUSE 10A SLOW T 215010 CA-EL

RW5673JP

FJ8045
L-S2017A-01
P-S2017N-01
RW5708
ZA0683
ZA0684
ZD10016

GIGRAC I000ST US

Description Part Number
!LEAD 10A IEC US 3PIN PLGG
WIREFORM 115V LINK GIGRAC 900
LABEL-115V CONNECTOR-GR1000
GIGRAC I000ST
LABEL-OUTER RW5673 EAN-13.
LABEL-INNER RW5673 EAN-13.
!FUSE 10A SLOW T 215010 CA-EL

RW5673US

FJ8045
L-S2017A-01
P-S2017K-01
RW5673
ZA0509
ZA0510
ZD10016

MAIN ASSEMBLIES

GIGRAC 1000ST

| Ident | Description |
|---------|---|
| --- | BUSH POT SHAFT - GIGRAC |
| --- | KNOB ST.STEEL-EFFECT SELECTOR |
| --- | FRONT PANEL-GIGRAC 1000ST |
| --- | GIGRAC 1000ST PCB ASSY |
| --- | (Safety Critical Part)! SWITCH MAINS ROCKER 6A 250V |
| --- | W/FORM 5WAY 2MM CRIMP TYPE |
| --- | W/FORM 10WAY 2MM CRIMP TYPE |
| --- | FAN ASSY MAIN UNIT-GIGRACGIGRA |
| --- | WIREFORM MAINS SWITCH-GRI000ST |
| --- | WIREFORM - CHASSIS GRI000ST |
| --- | CABLE TIE XV02- |
| --- | DUCT EXTRUSION |
| --- | HEATSINK PLATE |
| --- | STRAP LOGO - GIGRAC |
| --- | GASKET FAN & DUCT-GIGRAC |
| --- | BASE PANEL-GIGRAC 1000 |
| --- | SIDE PANEL L\HAND- GIGRAC900 |
| --- | SIDE PANEL R\HAND GIGRAC 900 |
| --- | DUAL AMPLIFIER PCB ASSY. |
| --- | PSU BOARD-GIGRAC 1000 |
| --- | LABEL-FCC SAFETY - GIGRAC |
| --- | ENDCAP-GIGRAC GR300/600/900 |
| --- | RACK BOLT-GIGRAC GR300/600/900 |
| --- | LABEL-SAFETY & SERIAL-GIGRAC |
| --- | CASE MOULDING-GIGRAC 1000ST |
| --- | LID MOULDING-GIGRAC 1000 ST |
| --- | BRACKET - GIGRAC 1000ST |
| --- | LID LINER - GIGRAC 1000ST |
| --- | BADGE MOULDING - GIGRAC 900 |
| --- | LOGO STICKER SHEET-GIGAC ACCES |
| --- | DESK GIGRAC MAT-ACCESSORY |
| --- | CORNER PACKAGING-GIGRAC |
| --- | CARTON PACKAGING -GIGRAC 900 |
| --- | POLY BAG 200G - 24X30 |
| --- | USER GUIDE- GIGRAC 1000ST |
| Pcb skt | PC JUMPER XL02- |

GIGRAC ASSY 1000 JP

| Ident | Description |
|-------|---|
| --- | BUSH POT SHAFT - GIGRAC |
| --- | KNOB ST.STEEL-EFFECT SELECTOR |
| --- | FRONT PANEL-GIGRAC 1000ST |
| --- | GIGRAC 1000ST PCB ASSY |
| --- | (Safety Critical Part)! SWITCH MAINS ROCKER 6A 250V |
| --- | W/FORM 5WAY 2MM CRIMP TYPE |
| --- | W/FORM 10WAY 2MM CRIMP TYPE |
| --- | FAN ASSY MAIN UNIT-GIGRACGIGRA |
| --- | WIREFORM MAINS SWITCH-GRI000ST |
| --- | WIREFORM - CHASSIS GRI000ST |
| --- | CABLE TIE XV02- |
| --- | DUCT EXTRUSION |
| --- | HEATSINK PLATE |
| --- | STRAP LOGO - GIGRAC |
| --- | GASKET FAN & DUCT-GIGRAC |
| --- | STRAP FIXING STRIP-GIGRAC |
| --- | BASE PANEL-GIGRAC 1000 |
| --- | SIDE PANEL L\HAND- GIGRAC900 |
| --- | SIDE PANEL R\HAND GIGRAC 900 |
| --- | DUAL AMPLIFIER PCB ASSY. |
| --- | PSU BOARD-GIGRAC 1000 |
| --- | LABEL-FCC SAFETY - GIGRAC |
| --- | ENDCAP-GIGRAC GR300/600/900 |
| --- | RACK BOLT-GIGRAC GR300/600/900 |
| --- | LABEL-SAFETY & SERIAL-GIGRAC |

RW5673

| Part Number |
|----------------|
| P-S2010J-02 |
| P-S2010Z-01 |
| P-S2017C-03 |
| R-S2017A-02-AF |
| DL10006 |
| L-S2010A-01 |
| L-S2010B-01 |
| L-S2010J-01 |
| L-S2017B-01 |
| L-S2017C-01 |
| LZ10008 |
| P-S2010G-03 |
| P-S2010L-01 |
| P-S2010R-03 |
| P-S2010X-01 |
| P-S2017D-02 |
| P-S2017E-02 |
| P-S2017F-02 |
| R-S2010B-04-AF |
| R-S2017B-03-AF |
| P-S2010CC-01 |
| P-S2010H-03 |
| P-S2010N-02 |
| P-S2010W-03 |
| P-S2017A-03 |
| P-S2017B-03 |
| P-S2017G-01 |
| P-S2017H-01 |
| P-S2017L-01 |
| P-S2010AA-01 |
| P-S2010BB-01 |
| T-S2010A-01 |
| T-S2017A-01 |
| TZ2440 |
| ZM0301-01 |
| FF10003 |

RW5708

| Part Number |
|----------------|
| P-S2010J-02 |
| P-S2010Z-01 |
| P-S2017C-02 |
| R-S2017A-02-AF |
| DL10006 |
| L-S2010A-01 |
| L-S2010B-01 |
| L-S2010J-01 |
| L-S2017B-01 |
| L-S2017C-01 |
| LZ10008 |
| P-S2010G-03 |
| P-S2010L-01 |
| P-S2010R-02 |
| P-S2010X-01 |
| P-S2010Y-01 |
| P-S2017D-02 |
| P-S2017E-02 |
| P-S2017F-02 |
| R-S2010B-03-AF |
| R-S2017B-03-AF |
| P-S2010CC-01 |
| P-S2010H-03 |
| P-S2010N-02 |
| P-S2010W-03 |

| | | |
|-----|--------------------------------|--------------|
| --- | CASE MOULDING-GIGRAC 1000ST | P-S2017A-01 |
| --- | LID MOULDING-GIGRAC 1000 ST | P-S2017B-01 |
| --- | BRACKET - GIGRAC 1000ST | P-S2017G-01 |
| --- | LID LINER - GIGRAC 1000ST | P-S2017H-01 |
| --- | LOGO STICKER SHEET-GIGAC ACCES | P-S2010AA-01 |
| --- | DESK GIGRAC MAT-ACCESSORY | P-S2010BB-01 |
| --- | CORNER PACKAGING-GIGRAC | T-S2010A-01 |
| --- | CARTON PACKAGING -GIGRAC 900 | T-S2017A-01 |
| --- | POLY BAG 200G - 24X30 | TZ2440 |
| --- | USER GUIDE- GIGRAC 1000ST | ZM0301-01 |

SWITCH TOPS, FADER TOPS AND KNOBS

| Description | Part Number | Used in (part number) |
|-------------------------------|-------------|-----------------------|
| CAP ELLIPSE SW DK/GRY LONG | KB10020 | RW5673, RW5708 |
| CAP ELLIPSE SW DK/GRY SHORT | KB10021 | RW5673, RW5708 |
| ELIPT SW-CP RED PANTONE 201C | KB2328 | RW5673, RW5708 |
| KNOB 14MM DK/GREY PTR YELL | KA10031 | RW5673 |
| KNOB 14MM DK/GRY & PTR LT/GRY | KA10025 | RW5673, RW5708 |
| KNOB 14MM DK/GRY PTR BLUE | KA10027 | RW5673, RW5708 |
| KNOB 14MM DK/GRY PTR RED | KA10028 | RW5673, RW5708 |
| KNOB 14MM DK/GY PTR BLACK | KA10026 | RW5673, RW5708 |
| KNOB 18MM DK/GY PTR RED | KA10029 | RW5673, RW5708 |
| KNOB FADER - GIGRAC | KA10024 | RW5673, RW5708 |

FADERS

Description

FADER 10K\10K-CD.30MM TRV.PAN.
PAN GRAPHIC FADER 10KB

Part Number

DD0469
DD0411

Used in: (part number)

R-S2017A-02-AF
R-S2017A-02-AF

MODULES AND FRAME PCBS

DUAL AMPLIFIER PCB ASSY.

| Ident | Description |
|-------|--------------------------------|
| --- | HEATSINK - GR300/600 |
| --- | PCB DUAL AMPLIFIER BOARD |
| --- | TIP INS BUSH |
| --- | TO-220 SIL PAD SELF ADHESIVE |
| --- | TO3 INSULATING WASHER |
| C1 | MICRO-BOX 5MM 5% 100V 100N |
| C2 | MICRO-BOX 5MM 5% 100V 100N |
| C3 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C4 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C5 | MICRO-BOX 5MM 5% 63V 10N |
| C6 | CAP CER ML 47PF 100V 5% NPO |
| C7 | CAP CER 330PF 100V TPD 0.2" |
| C8 | CAP ELEC VERT 100UF 25V SKP |
| C10 | MICRO-BOX 5MM 5% 63V 10N |
| C11 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C12 | MICRO-BOX 5MM 5% 100V 100N |
| C13 | MICRO-BOX 5MM 5% 100V 100N |
| C14 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C15 | MICRO-BOX 5MM 5% 63V 10N |
| C17 | CAP ELEC VERT 100UF 25V SKP |
| C18 | CAP CER 330PF 100V TPD 0.2" |
| C19 | CAP CER ML 47PF 100V 5% NPO |
| C20 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C21 | MICRO-BOX 5MM 5% 63V 10N |
| C22 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C23 | MICRO-BOX 5MM 5% 100V 100N |
| C24 | MICRO-BOX 5MM 5% 100V 100N |
| C25 | CAP ELEC VERT 100UF 25V SKP |
| C26 | CAP ELEC VERT 330UF 25V SKP |
| C27 | CAP CER ML 0.1UF 50V 5MM |
| C28 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C29 | CAP CER ML 0.1UF 50V 5MM |
| C30 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C31 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C32 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C33 | CAP CER ML 0.1UF 50V 5MM |
| C34 | CAP CER ML 0.1UF 50V 5MM |
| C35 | CAP CER ML 0.1UF 50V 5MM |
| C36 | CAP CER ML 0.1UF 50V 5MM |
| C38 | MICRO-BOX 5MM 5% 63V 10N |
| C39 | MICRO-BOX 5MM 5% 63V 10N |
| C40 | CAP CER 150PF 100V TPD 0.2" |
| C41 | CAP CER 150PF 100V TPD 0.2" |
| C42 | CAP CER 150PF 100V TPD 0.2" |
| C43 | CAP CER 150PF 100V TPD 0.2" |
| CN1 | 10WY 2MM VERT ML HDR(CHINA) |
| CN2 | 5WY 2MM VERT ML HDR CHINA |
| CN3 | 2WY 0.1 ST&F/L CONN HDR CA-CO |
| D1 | DIODE IN4148 |
| D2 | DIODE IN4004 |
| D3 | DIODE IN4148 |
| D4 | DIODE IN4148 |
| D5 | DIODE IN4148 |
| D6 | DIODE IN4148 |
| D7 | DIODE IN4004 |
| D8 | DIODE IN4148 |
| D9 | DIODE IN4148 |
| D10 | DIODE IN4004 |
| D11 | DIODE IN4148 |
| D12 | DIODE IN4148 |
| D13 | DIODE IN4148 |
| D14 | DIODE IN4004 |
| D15 | DIODE IN4148 |
| D16 | DIODE IN4148 |
| IC1 | JRC DUAL OP AMP 072BDE |

R-S2010B-03-AF

| Part Number |
|-------------|
| P-S2010K-02 |
| S-S2010B-03 |
| ZC0215 |
| ZC0250 |
| ZC10029 |
| CC0250 |
| CC0250 |
| CE0462 |
| CE0462 |
| CC0244 |
| CA0067R |
| CA0049R |
| CE0446 |
| CC0244 |
| CE0462 |
| CC0250 |
| CC0250 |
| CE0462 |
| CC0244 |
| CE0446 |
| CA0049R |
| CA0067R |
| CE0462 |
| CC0244 |
| CE0462 |
| CC0250 |
| CC0250 |
| CE0446 |
| CE0506 |
| CA0026 |
| CE0462 |
| CA0026 |
| CE0462 |
| CE0462 |
| CA0026 |
| CA0026 |
| CA0026 |
| CA0026 |
| CC0244 |
| CC0244 |
| CA0045R |
| CA0045R |
| CA0045R |
| CA0045R |
| FF1003 |
| FF10097 |
| FF10046 |
| BA0001 |
| BA0012 |
| BA0001 |
| BA0001 |
| BA0001 |
| BA0001 |
| BA0012 |
| BA0001 |
| BA0001 |
| BA0012 |
| BA0001 |
| BA0001 |
| BA0012 |
| BA0001 |
| BA0001 |
| BE0413 |

| | | |
|-----|-----------------------------|---------|
| IC2 | V.REG 7815 +15V 1A | BE0416 |
| IC3 | V.REG 7915 -15V 1A | BE0417 |
| R1 | MF 0.25W RES 1% 1M BL | API421 |
| R2 | MF 0.25W RES 1% 100R BL | API325 |
| R3 | MF 0.25W RES 1% 470R BL | API341 |
| R4 | MF 0.25W RES 1% 100R BL | API325 |
| R5 | MF 0.25W RES 1% 100R BL | API325 |
| R6 | RES W/W 0R47 3W CA-RE | AG10007 |
| R7 | MF 0.25W RES 1% 20K BL | API380 |
| R8 | MF 0.25W RES 1% 20K BL | API380 |
| R9 | RES 3R3 5% 1W MF PRO1 XA01- | AE10010 |
| R10 | MF 0.25W RES 1% 47R BL | API317 |
| R11 | MF 0.25W RES 1% 430R BL | API340 |
| R12 | AP 0.25W RES 1% 1K BL | API349 |
| R13 | MF 0.25W RES 1% 390R BL | API339 |
| R14 | MF 0.25W RES 1% 470R BL | API341 |
| R15 | MF 0.25W RES 1% 220K BL | API405 |
| R16 | RES W/W 0R47 3W CA-RE | AG10007 |
| R17 | MF 0.25W RES 1% 47K BL | API389 |
| R18 | MF 0.25W RES 1% 47K BL | API389 |
| R19 | MF 0.25W RES 1% 10K BL | API373 |
| R20 | MF 0.25W RES 1% 47K BL | API389 |
| R21 | MF 0.25W RES 1% 10K BL | API373 |
| R22 | MF 0.25W RES 1% 20K BL | API380 |
| R23 | MF 0.25W RES 1% 4K7 BL | API365 |
| R24 | MF 0.25W RES 1% 100R BL | API325 |
| R25 | MF 0.25W RES 1% 100R BL | API325 |
| R26 | MF 0.25W RES 1% 20K BL | API380 |
| R27 | RES W/W 0R47 3W CA-RE | AG10007 |
| R28 | MF 0.25W RES 1% 390R BL | API339 |
| R29 | MF 0.25W RES 1% 47R BL | API317 |
| R30 | AP 0.25W RES 1% 1K BL | API349 |
| R31 | MF 0.25W RES 1% 200R BL | API332 |
| R32 | RES W/W 0R47 3W CA-RE | AG10007 |
| R33 | AP 0.25W RES 1% 1K BL | API349 |
| R34 | MF 0.25W RES 1% 47K BL | API389 |
| R35 | MF 0.25W RES 1% 470R BL | API341 |
| R36 | MF 0.25W RES 1% 20K BL | API380 |
| R37 | MF 0.25W RES 1% 20K BL | API380 |
| R38 | MF 0.25W RES 1% 1M BL | API421 |
| R39 | MF 0.25W RES 1% 1M BL | API421 |
| R40 | MF 0.25W RES 1% 100R BL | API325 |
| R41 | MF 0.25W RES 1% 20K BL | API380 |
| R42 | MF 0.25W RES 1% 470R BL | API341 |
| R43 | MF 0.25W RES 1% 20K BL | API380 |
| R44 | MF 0.25W RES 1% 47K BL | API389 |
| R45 | RES W/W 0R47 3W CA-RE | AG10007 |
| R46 | AP 0.25W RES 1% 1K BL | API349 |
| R47 | MF 0.25W RES 1% 47R BL | API317 |
| R48 | MF 0.25W RES 1% 200R BL | API332 |
| R49 | AP 0.25W RES 1% 1K BL | API349 |
| R50 | MF 0.25W RES 1% 390R BL | API339 |
| R51 | RES W/W 0R47 3W CA-RE | AG10007 |
| R52 | MF 0.25W RES 1% 20K BL | API380 |
| R53 | MF 0.25W RES 1% 4K7 BL | API365 |
| R54 | MF 0.25W RES 1% 100R BL | API325 |
| R55 | MF 0.25W RES 1% 20K BL | API380 |
| R56 | MF 0.25W RES 1% 100R BL | API325 |
| R57 | RES W/W 0R47 3W CA-RE | AG10007 |
| R58 | MF 0.25W RES 1% 390R BL | API339 |
| R59 | AP 0.25W RES 1% 1K BL | API349 |
| R60 | MF 0.25W RES 1% 430R BL | API340 |
| R61 | MF 0.25W RES 1% 47R BL | API317 |
| R62 | MF 0.25W RES 1% 20K BL | API380 |
| R63 | RES 3R3 5% 1W MF PRO1 XA01- | AE10010 |
| R64 | MF 0.25W RES 1% 20K BL | API380 |
| R65 | RES W/W 0R47 3W CA-RE | AG10007 |
| R66 | MF 0.25W RES 1% 100R BL | API325 |
| R67 | MF 0.25W RES 1% 100R BL | API325 |
| R68 | MF 0.25W RES 1% 470R BL | API341 |
| R69 | MF 0.25W RES 1% 1M BL | API421 |
| R70 | MF 0.25W RES 1% 470R BL | API341 |
| R71 | MF 0.25W RES 1% 2K BL | API356 |

| | | |
|------|--------------------------------|---------|
| R72 | MF 0.25W RES 1% 47K BL | API389 |
| R73 | MF 0.25W RES 1% 470K BL | API413 |
| R74 | MF 0.25W RES 1% 10K BL | API373 |
| R75 | MF 0.25W RES 1% 20K BL | API380 |
| R76 | MF 0.25W RES 1% 47K BL | API389 |
| R77 | MF 0.25W RES 1% 1K5 BL | API353 |
| R78 | AP 0.25W RES 1% 1K BL | API349 |
| R79 | MF 0.25W RES 1% 4K7 BL | API365 |
| R80 | MF 0.25W RES 1% 4K7 BL | API365 |
| R81 | MF 0.25W RES 1% 1K5 BL | API353 |
| R82 | MF 0.25W RES 1% 220K BL | API405 |
| R83 | MF 0.25W RES 1% 1K5 BL | API353 |
| R84 | MF 0.25W RES 1% 220K BL | API405 |
| R85 | MF 0.25W RES 1% 10K BL | API373 |
| R86 | MF 0.25W RES 1% 10K BL | API373 |
| R87 | MF 0.25W RES 1% 510R BL | API342 |
| R88 | MF 0.25W RES 1% 510R BL | API342 |
| TH1 | THERMISTOR NTC 12K | AZI0012 |
| TR1 | MJE5731A TRANSISTOR CA-TF | BD10014 |
| TR2 | BF422 NPN TRANS | BD0364 |
| TR3 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR4 | BF423 PNP TRANS | BD0365 |
| TR5 | MJ15024 NPN POWER TRANS TO3 | BD0373 |
| TR6 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR7 | MJ15024 NPN POWER TRANS TO3 | BD0373 |
| TR8 | BF422 NPN TRANS | BD0364 |
| TR9 | BF423 PNP TRANS | BD0365 |
| TR10 | MJ15025 PNP POWER TRANS TO3 | BD0374 |
| TR11 | BF423 PNP TRANS | BD0365 |
| TR12 | BF423 PNP TRANS | BD0365 |
| TR13 | BF422 NPN TRANS | BD0364 |
| TR14 | BF422 NPN TRANS | BD0364 |
| TR15 | MJ15025 PNP POWER TRANS TO3 | BD0374 |
| TR16 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR17 | HV NPN POWER TRANS TIP50 CA-TF | BD10020 |
| TR18 | BF423 PNP TRANS | BD0365 |
| TR19 | HV NPN POWER TRANS TIP50 CA-TF | BD10020 |
| TR20 | BF423 PNP TRANS | BD0365 |
| TR21 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR22 | MJ15025 PNP POWER TRANS TO3 | BD0374 |
| TR23 | BF422 NPN TRANS | BD0364 |
| TR24 | BF422 NPN TRANS | BD0364 |
| TR25 | BF423 PNP TRANS | BD0365 |
| TR26 | BF423 PNP TRANS | BD0365 |
| TR27 | MJ15025 PNP POWER TRANS TO3 | BD0374 |
| TR28 | BF423 PNP TRANS | BD0365 |
| TR29 | MJ15024 NPN POWER TRANS TO3 | BD0373 |
| TR30 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR31 | MJ15024 NPN POWER TRANS TO3 | BD0373 |
| TR32 | BF423 PNP TRANS | BD0365 |
| TR33 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR34 | MJE5731A TRANSISTOR CA-TF | BD10014 |
| TR35 | BF422 NPN TRANS | BD0364 |
| TR36 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR37 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR38 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR39 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR40 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR41 | TRANS TIP122 TO220 XE01- | BD10026 |
| ZD1 | ZENER DIODE 500MW 47V CA-DB | BB10011 |
| ZD10 | ZENER DIODE 400MW 20V | BBA20V0 |
| ZD11 | ZENER DIODE 500MW 47V CA-DB | BB10011 |
| ZD12 | ZENER DIODE 500MW 4.7V 5%CA-DB | BB10007 |
| ZD13 | ZENER DIODE 33V | BB0123 |
| ZD2 | ZENER DIODE 400MW 20V | BBA20V0 |
| ZD3 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD4 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD5 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD6 | ZENER DIODE 400MW 20V | BBA20V0 |
| ZD7 | ZENER DIODE 400MW 20V | BBA20V0 |
| ZD8 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD9 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |

DUAL AMPLIFIER PCB ASSY.**R-S2010B-04-AF**

| Ident | Description | Part Number |
|-------|--------------------------------|-------------|
| --- | HEATSINK - GR300/600 | P-S2010K-02 |
| --- | PCB DUAL AMPLIFIER BOARD | S-S2010B-04 |
| --- | TIP INS BUSH | ZC0215 |
| --- | TO-220 SIL PAD SELF ADHESIVE | ZC0250 |
| --- | TO3 INSULATING WASHER | ZC10029 |
| C1 | MICRO-BOX 5MM 5% 100V 100N | CC0250 |
| C2 | MICRO-BOX 5MM 5% 100V 100N | CC0250 |
| C3 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C4 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C5 | MICRO-BOX 5MM 5% 63V 10N | CC0244 |
| C6 | CAP CER ML 47PF 100V 5% NPO | CA0067R |
| C7 | CAP CER 330PF 100V TPD 0.2" | CA0049R |
| C8 | CAP ELEC VERT 100UF 25V SKP | CE0446 |
| C10 | MICRO-BOX 5MM 5% 63V 10N | CC0244 |
| C11 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C12 | MICRO-BOX 5MM 5% 100V 100N | CC0250 |
| C13 | MICRO-BOX 5MM 5% 100V 100N | CC0250 |
| C14 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C15 | MICRO-BOX 5MM 5% 63V 10N | CC0244 |
| C17 | CAP ELEC VERT 100UF 25V SKP | CE0446 |
| C18 | CAP CER 330PF 100V TPD 0.2" | CA0049R |
| C19 | CAP CER ML 47PF 100V 5% NPO | CA0067R |
| C20 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C21 | MICRO-BOX 5MM 5% 63V 10N | CC0244 |
| C22 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C23 | MICRO-BOX 5MM 5% 100V 100N | CC0250 |
| C24 | MICRO-BOX 5MM 5% 100V 100N | CC0250 |
| C25 | CAP ELEC VERT 100UF 25V SKP | CE0446 |
| C26 | CAP ELEC VERT 330UF 25V SKP | CE0506 |
| C27 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C28 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C29 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C30 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C31 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C32 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C33 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C34 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C35 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C36 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C38 | MICRO-BOX 5MM 5% 63V 10N | CC0244 |
| C39 | MICRO-BOX 5MM 5% 63V 10N | CC0244 |
| C40 | CAP CER 150PF 100V TPD 0.2" | CA0045R |
| C41 | CAP CER 150PF 100V TPD 0.2" | CA0045R |
| C42 | CAP CER 150PF 100V TPD 0.2" | CA0045R |
| C43 | CAP CER 150PF 100V TPD 0.2" | CA0045R |
| C44 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| CN1 | 10WY 2MM VERT ML HDR(CHINA) | FF1003 |
| CN2 | 5WY 2MM VERT ML HDR CHINA | FF10097 |
| CN3 | 2WY 0.1 ST&F/L CONN HDR CA-CO | FF10046 |
| D1 | DIODE 1N4148 | BA0001 |
| D2 | DIODE 1N4004 | BA0012 |
| D3 | DIODE 1N4148 | BA0001 |
| D4 | DIODE 1N4148 | BA0001 |
| D5 | DIODE 1N4148 | BA0001 |
| D6 | DIODE 1N4148 | BA0001 |
| D7 | DIODE 1N4004 | BA0012 |
| D8 | DIODE 1N4148 | BA0001 |
| D9 | DIODE 1N4148 | BA0001 |
| D10 | DIODE 1N4004 | BA0012 |
| D11 | DIODE 1N4148 | BA0001 |
| D12 | DIODE 1N4148 | BA0001 |
| D13 | DIODE 1N4148 | BA0001 |
| D14 | DIODE 1N4004 | BA0012 |
| D15 | DIODE 1N4148 | BA0001 |
| D16 | DIODE 1N4148 | BA0001 |
| D17 | DIODE 1N4148 | BA0001 |
| D18 | DIODE 1N4148 | BA0001 |
| IC1 | JRC DUAL OP AMP 072BDE | BE0413 |
| IC2 | V.REG 7815 +15V 1A | BE0416 |
| IC3 | V.REG 7915 -15V 1A | BE0417 |

| | | |
|-----|-----------------------------|---------|
| R1 | MF 0.25W RES 1% 1M BL | API421 |
| R2 | MF 0.25W RES 1% 100R BL | API325 |
| R3 | MF 0.25W RES 1% 470R BL | API341 |
| R4 | MF 0.25W RES 1% 100R BL | API325 |
| R5 | MF 0.25W RES 1% 100R BL | API325 |
| R6 | RES W/W 0R47 3W CA-RE | AG10007 |
| R7 | MF 0.25W RES 1% 20K BL | API380 |
| R8 | MF 0.25W RES 1% 20K BL | API380 |
| R9 | RES 3R3 5% 1W MF PROI XA01- | AE10010 |
| R10 | MF 0.25W RES 1% 47R BL | API317 |
| R11 | MF 0.25W RES 1% 430R BL | API340 |
| R12 | AP 0.25W RES 1% 1K BL | API349 |
| R13 | MF 0.25W RES 1% 390R BL | API339 |
| R14 | MF 0.25W RES 1% 470R BL | API341 |
| R15 | MF 0.25W RES 1% 220K BL | API405 |
| R16 | RES W/W 0R47 3W CA-RE | AG10007 |
| R17 | MF 0.25W RES 1% 47K BL | API389 |
| R18 | MF 0.25W RES 1% 47K BL | API389 |
| R19 | MF 0.25W RES 1% 10K BL | API373 |
| R20 | MF 0.25W RES 1% 47K BL | API389 |
| R21 | MF 0.25W RES 1% 10K BL | API373 |
| R22 | MF 0.25W RES 1% 20K BL | API380 |
| R23 | MF 0.25W RES 1% 4K7 BL | API365 |
| R24 | MF 0.25W RES 1% 100R BL | API325 |
| R25 | MF 0.25W RES 1% 100R BL | API325 |
| R26 | MF 0.25W RES 1% 20K BL | API380 |
| R27 | RES W/W 0R47 3W CA-RE | AG10007 |
| R28 | MF 0.25W RES 1% 390R BL | API339 |
| R29 | MF 0.25W RES 1% 47R BL | API317 |
| R30 | AP 0.25W RES 1% 1K BL | API349 |
| R31 | MF 0.25W RES 1% 200R BL | API332 |
| R32 | RES W/W 0R47 3W CA-RE | AG10007 |
| R33 | AP 0.25W RES 1% 1K BL | API349 |
| R34 | MF 0.25W RES 1% 47K BL | API389 |
| R35 | MF 0.25W RES 1% 470R BL | API341 |
| R36 | MF 0.25W RES 1% 20K BL | API380 |
| R37 | MF 0.25W RES 1% 20K BL | API380 |
| R38 | MF 0.25W RES 1% 1M BL | API421 |
| R39 | MF 0.25W RES 1% 1M BL | API421 |
| R40 | MF 0.25W RES 1% 100R BL | API325 |
| R41 | MF 0.25W RES 1% 20K BL | API380 |
| R42 | MF 0.25W RES 1% 470R BL | API341 |
| R43 | MF 0.25W RES 1% 20K BL | API380 |
| R44 | MF 0.25W RES 1% 47K BL | API389 |
| R45 | RES W/W 0R47 3W CA-RE | AG10007 |
| R46 | AP 0.25W RES 1% 1K BL | API349 |
| R47 | MF 0.25W RES 1% 47R BL | API317 |
| R48 | MF 0.25W RES 1% 200R BL | API332 |
| R49 | AP 0.25W RES 1% 1K BL | API349 |
| R50 | MF 0.25W RES 1% 390R BL | API339 |
| R51 | RES W/W 0R47 3W CA-RE | AG10007 |
| R52 | MF 0.25W RES 1% 20K BL | API380 |
| R53 | MF 0.25W RES 1% 4K7 BL | API365 |
| R54 | MF 0.25W RES 1% 100R BL | API325 |
| R55 | MF 0.25W RES 1% 20K BL | API380 |
| R56 | MF 0.25W RES 1% 100R BL | API325 |
| R57 | RES W/W 0R47 3W CA-RE | AG10007 |
| R58 | MF 0.25W RES 1% 390R BL | API339 |
| R59 | AP 0.25W RES 1% 1K BL | API349 |
| R60 | MF 0.25W RES 1% 430R BL | API340 |
| R61 | MF 0.25W RES 1% 47R BL | API317 |
| R62 | MF 0.25W RES 1% 20K BL | API380 |
| R63 | RES 3R3 5% 1W MF PROI XA01- | AE10010 |
| R64 | MF 0.25W RES 1% 20K BL | API380 |
| R65 | RES W/W 0R47 3W CA-RE | AG10007 |
| R66 | MF 0.25W RES 1% 100R BL | API325 |
| R67 | MF 0.25W RES 1% 100R BL | API325 |
| R68 | MF 0.25W RES 1% 470R BL | API341 |
| R69 | MF 0.25W RES 1% 1M BL | API421 |
| R70 | MF 0.25W RES 1% 470R BL | API341 |
| R71 | MF 0.25W RES 1% 2K BL | API356 |
| R72 | MF 0.25W RES 1% 47K BL | API389 |
| R73 | MF 0.25W RES 1% 470K BL | API413 |

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|------|--------------------------------|---------|
| R74 | MF 0.25W RES 1% 10K BL | API373 |
| R75 | MF 0.25W RES 1% 20K BL | API380 |
| R76 | MF 0.25W RES 1% 47K BL | API389 |
| R77 | MF 0.25W RES 1% 1K5 BL | API353 |
| R78 | AP 0.25W RES 1% 1K BL | API349 |
| R79 | MF 0.25W RES 1% 4K7 BL | API365 |
| R80 | MF 0.25W RES 1% 4K7 BL | API365 |
| R81 | MF 0.25W RES 1% 1K5 BL | API353 |
| R82 | MF 0.25W RES 1% 220K BL | API405 |
| R83 | MF 0.25W RES 1% 1K5 BL | API353 |
| R84 | MF 0.25W RES 1% 220K BL | API405 |
| R85 | MF 0.25W RES 1% 10K BL | API373 |
| R86 | MF 0.25W RES 1% 10K BL | API373 |
| R87 | MF 0.25W RES 1% 510R BL | API342 |
| R88 | MF 0.25W RES 1% 510R BL | API342 |
| R89 | MF 0.25W RES 1% 1M2 BL | API423 |
| R90 | MF 0.25W RES 1% 1M5 BL | API425 |
| TH1 | THERMISTOR NTC 12K | AZ10012 |
| TR1 | MJE5731A TRANSISTOR CA-TF | BD10014 |
| TR2 | BF422 NPN TRANS | BD0364 |
| TR3 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR4 | BF423 PNP TRANS | BD0365 |
| TR5 | MJ15024 NPN POWER TRANS TO3 | BD0373 |
| TR6 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR7 | MJ15024 NPN POWER TRANS TO3 | BD0373 |
| TR8 | BF422 NPN TRANS | BD0364 |
| TR9 | BF423 PNP TRANS | BD0365 |
| TR10 | MJ15025 PNP POWER TRANS TO3 | BD0374 |
| TR11 | BF423 PNP TRANS | BD0365 |
| TR12 | BF423 PNP TRANS | BD0365 |
| TR13 | BF422 NPN TRANS | BD0364 |
| TR14 | BF422 NPN TRANS | BD0364 |
| TR15 | MJ15025 PNP POWER TRANS TO3 | BD0374 |
| TR16 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR17 | HV NPN POWER TRANS TIP50 CA-TF | BD10020 |
| TR18 | BF423 PNP TRANS | BD0365 |
| TR19 | HV NPN POWER TRANS TIP50 CA-TF | BD10020 |
| TR20 | BF423 PNP TRANS | BD0365 |
| TR21 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR22 | MJ15025 PNP POWER TRANS TO3 | BD0374 |
| TR23 | BF422 NPN TRANS | BD0364 |
| TR24 | BF422 NPN TRANS | BD0364 |
| TR25 | BF423 PNP TRANS | BD0365 |
| TR26 | BF423 PNP TRANS | BD0365 |
| TR27 | MJ15025 PNP POWER TRANS TO3 | BD0374 |
| TR28 | BF423 PNP TRANS | BD0365 |
| TR29 | MJ15024 NPN POWER TRANS TO3 | BD0373 |
| TR30 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR31 | MJ15024 NPN POWER TRANS TO3 | BD0373 |
| TR32 | BF423 PNP TRANS | BD0365 |
| TR33 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR34 | MJE5731A TRANSISTOR CA-TF | BD10014 |
| TR35 | BF422 NPN TRANS | BD0364 |
| TR36 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR37 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR38 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR39 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR40 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR41 | TRANS TIP122 TO220 XE01- | BD10026 |
| TR42 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR43 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| ZD1 | ZENER DIODE 500MW 47V CA-DB | BB10011 |
| ZD10 | ZENER DIODE 400MW 20V | BBA20V0 |
| ZD11 | ZENER DIODE 500MW 47V CA-DB | BB10011 |
| ZD12 | ZENER DIODE 500MW 4.7V 5%CA-DB | BB10007 |
| ZD13 | ZENER DIODE 33V | BB0123 |
| ZD14 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD2 | ZENER DIODE 400MW 20V | BBA20V0 |
| ZD3 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD4 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD5 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD6 | ZENER DIODE 400MW 20V | BBA20V0 |
| ZD7 | ZENER DIODE 400MW 20V | BBA20V0 |

ZD8 ZENER DIODE 500MW 2V7 CA-DB
 ZD9 ZENER DIODE 500MW 2V7 CA-DB

BB10002
 BB10002

GIGRAC I000ST PCB ASSY

| Ident | Description |
|-------|--------------------------------|
| --- | GIGRAC I000 PROG.PIC V1.00 |
| --- | GIGRAC I000ST PCB SM ASSY |
| C3 | MICRO-BOX 5MM 5% 63V 22N |
| C4 | MICRO BOX 5MM 5% 63V 330N |
| C6 | MICRO-BOX 5MM 5% 63V 33N |
| C7 | MICRO-BOX 5MM 5% 63V 6N8 |
| C10 | POLY-CAP 5MM 5% 63V 150N |
| C11 | MICRO-BOX 5MM 5% 63V 3N3 |
| C12 | MICRO-BOX 5MM 5% 63V 47N |
| C13 | MICRO-BOX 5MM 5% 470NF 63/100V |
| C19 | MICRO-BOX 5MM 5% 63V 47N |
| C1A | CAP ELEC VERT 47UF 63V SKP 0.2 |
| C1B | CAP ELEC VERT 47UF 63V SKP 0.2 |
| C1C | CAP ELEC VERT 47UF 63V SKP 0.2 |
| C1D | CAP ELEC VERT 47UF 63V SKP 0.2 |
| C20 | MICRO-BOX 5MM 5% 63V 33N |
| C21 | MICRO-BOX 5MM 5% 63V 3N3 |
| C22 | MICRO-BOX 5MM 5% 63V 6N8 |
| C23 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C25 | MICRO-BOX 5MM 5% 63V 22N |
| C26 | MICRO BOX 5MM 5% 63V 330N |
| C29 | CAP ELEC VERT 100UF 25V SKP |
| C2A | CAP ELEC VERT 47UF 63V SKP 0.2 |
| C2B | CAP ELEC VERT 47UF 63V SKP 0.2 |
| C2C | CAP ELEC VERT 47UF 63V SKP 0.2 |
| C2D | CAP ELEC VERT 47UF 63V SKP 0.2 |
| C31 | MICRO-BOX 5MM 5% 63V 47N |
| C32 | MICRO-BOX 5MM 5% 470NF 63/100V |
| C36 | CAP ELEC VERT 100UF 25V SKP |
| C37 | POLY-CAP 5MM 5% 63V 150N |
| C38 | MICRO-BOX 5MM 5% 63V 3N3 |
| C39 | MICRO-BOX 5MM 5% 63V 47N |
| C40 | MICRO-BOX 5MM 5% 63V 3N3 |
| C41 | CAP ELEC VERT 100UF 25V SKP |
| C42 | CAP ELEC VERT 100UF 25V SKP |
| C44 | MICRO-BOX 5MM 5% 63V 33N |
| C45 | MICRO-BOX 5MM 5% 63V 6N8 |
| C49 | CAP ELEC VERT 33UF 16V SSP |
| C51 | CAP ELEC VERT 33UF 16V SSP |
| C53 | MICRO-BOX 5MM 5% 63V 47N |
| C55 | MICRO-BOX 5MM 5% 63V 3N3 |
| C5A | CAP ELEC VERT 470UF 6.3V SKP 8 |
| C5B | CAP ELEC VERT 470UF 6.3V SKP 8 |
| C5C | CAP ELEC VERT 470UF 6.3V SKP 8 |
| C5D | CAP ELEC VERT 470UF 6.3V SKP 8 |
| C61 | CAP ELEC VERT 220UF 6.3V 6X11M |
| C63 | CAP ELEC VERT 33UF 16V SSP |
| C64 | CAP ELEC VERT 10UF 16V SSP |
| C65 | CAP ELEC VERT 33UF 16V SSP |
| C66 | CAP ELEC VERT 33UF 16V SSP |
| C69 | MICRO-BOX 5MM 5% 63V 22N |
| C70 | MICRO BOX 5MM 5% 63V 330N |
| C71 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C72 | CAP ELEC VERT 10UF 16V SSP |
| C73 | POLY-CAP 5MM 5% 63V 150N |
| C74 | MICRO-BOX 5MM 5% 63V 3N3 |
| C75 | MICRO-BOX 5MM 5% 63V 47N |
| C76 | MICRO-BOX 5MM 5% 470NF 63/100V |
| C77 | CAP ELEC VERT 4.7UF 50V SKP |
| C78 | CAP ELEC VERT 10UF 63V SKP 5X1 |
| C79 | CAP ELEC VERT 10UF 16V SSP |
| C80 | CAP ELEC VERT 220UF 6.3V 6X11M |
| C81 | CAP ELEC VERT 10UF 16V SSP |
| C82 | CAP ELEC VERT 10UF 16V SSP |
| C83 | CAP ELEC VERT 10UF 16V SSP |
| C86 | CAP ELEC VERT 10UF 16V SSP |
| C87 | CAP ELEC VERT 10UF 16V SSP |

R-S2017A-02-AF

| Part Number |
|----------------|
| M-S2017A-1.00 |
| R-S2017A-02-SM |
| CC0246 |
| CC0264 |
| CC0247 |
| CC0243 |
| CC0261 |
| CC0241 |
| CC0248 |
| CC0267 |
| CC0248 |
| CE0402 |
| CE0402 |
| CE0402 |
| CE0402 |
| CC0247 |
| CC0241 |
| CC0243 |
| CE0462 |
| CC0246 |
| CC0264 |
| CE0446 |
| CE0402 |
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| CC0248 |
| CC0267 |
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| CE0423 |
| CE0457 |
| CE0448 |
| CE0457 |
| CE0457 |
| CC0246 |
| CC0264 |
| CE0462 |
| CE0448 |
| CC0261 |
| CC0241 |
| CC0248 |
| CC0267 |
| CE0440 |
| CE0462 |
| CE0448 |
| CE0423 |
| CE0448 |
| CE0448 |
| CE0448 |
| CE0448 |
| CE0448 |

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|-------|--------------------------------|--------|
| C88 | CAP ELEC VERT 220UF 6.3V 6X11M | CE0423 |
| C89 | CAP ELEC VERT 220UF 6.3V 6X11M | CE0423 |
| C93 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C94 | CAP ELEC VERT 220UF 6.3V 6X11M | CE0423 |
| C96 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C97 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C98 | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C9A | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C9B | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C9C | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C9D | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C102 | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C103 | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C108 | MICRO BOX 5MM 5% 63V 330N | CC0264 |
| C10A | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C10B | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C10C | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C10D | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C11A | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C11B | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C11C | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C11D | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C12A | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C12B | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C12C | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C12D | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C13A | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C13B | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C13C | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C13D | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C63A | CAP ELEC VERT 470UF 6.3V SKP 8 | CE0449 |
| C63B | CAP ELEC VERT 470UF 6.3V SKP 8 | CE0449 |
| C63C | CAP ELEC VERT 470UF 6.3V SKP 8 | CE0449 |
| C63D | CAP ELEC VERT 470UF 6.3V SKP 8 | CE0449 |
| C68A | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C68B | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C68C | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C68D | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C69A | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C69B | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C69C | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C69D | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C70A | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C70B | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C70C | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C70D | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C71A | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C71B | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C71C | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C71D | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C72A | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C72B | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C72C | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C72D | MICRO-BOX 5MM 5% 63V 4N7 | CC0242 |
| C73A | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C73B | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C73C | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C73D | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C74A | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C74B | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C74C | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C74D | MICRO-BOX 5MM 5% 63V 68N | CC0249 |
| C75A | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C75B | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C75C | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C75D | MICRO-BOX 5MM 5% 63V 15N | CC0245 |
| C207A | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C207B | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C207C | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C207D | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C208A | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C208B | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| C208C | CAP ELEC VERT 10UF 16V SSP | CE0448 |

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| C208D | CAP ELEC VERT 10UF 16V SSP | CE0448 |
| CN1 | 10WY 2MM VERT ML HDR(CHINA) | FF1003 |
| CN2 | DUAL PC PHONO VERT 24MM CLIFF | FH0768 |
| CN3 | DUAL PC PHONO VERT 24MM CLIFF | FH0768 |
| CN1A | DUAL PC PHONO VERT 24MM CLIFF | FH0768 |
| CN1B | DUAL PC PHONO VERT 24MM CLIFF | FH0768 |
| FDR1 | FADER 10K\10K-CD.30MM TRV.PAN. | DD0469 |
| FDR10 | PAN GRAPHIC FADER 10KB | DD0411 |
| FDR11 | PAN GRAPHIC FADER 10KB | DD0411 |
| FDR12 | PAN GRAPHIC FADER 10KB | DD0411 |
| FDR13 | PAN GRAPHIC FADER 10KB | DD0411 |
| FDR14 | PAN GRAPHIC FADER 10KB | DD0411 |
| FDR2 | FADER 10K\10K-CD.30MM TRV.PAN. | DD0469 |
| FDR3 | FADER 10K\10K-CD.30MM TRV.PAN. | DD0469 |
| FDR4 | FADER 10K\10K-CD.30MM TRV.PAN. | DD0469 |
| FDR5 | FADER 10K\10K-CD.30MM TRV.PAN. | DD0469 |
| FDR6 | FADER 10K\10K-CD.30MM TRV.PAN. | DD0469 |
| FDR7 | FADER 10K\10K-CD.30MM TRV.PAN. | DD0469 |
| FDR8 | PAN GRAPHIC FADER 10KB | DD0411 |
| FDR9 | PAN GRAPHIC FADER 10KB | DD0411 |
| JK3 | JACK SKT STEREO 5PIN LIH SHENG | FH0793 |
| JK4 | JACK SKT STEREO 3PIN LIH SHENG | FH0792 |
| JK5 | JACK SKT STEREO 5PIN LIH SHENG | FH0793 |
| JK6 | JACK SKT STEREO 3PIN LIH SHENG | FH0792 |
| JK7 | JACK SKT STEREO 3PIN LIH SHENG | FH0792 |
| JK8 | JACK SKT STEREO 3PIN LIH SHENG | FH0792 |
| JK9 | JACK SKT STEREO 3PIN LIH SHENG | FH0792 |
| JK10 | JACK SKT STEREO 3PIN LIH SHENG | FH0792 |
| JK1A | JACK SKT STEREO 5PIN LIH SHENG | FH0793 |
| JK1B | JACK SKT STEREO 5PIN LIH SHENG | FH0793 |
| LED1 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED1 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED2 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED2 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED3 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED3 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED4 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED4 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED5 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED5 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED6 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED6 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED7 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED7 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED8 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED8 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED9 | LED 3MM ULTRA WHITE ROUND | JA10026 |
| LED9 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED10 | LED 3MM ULTRA WHITE ROUND | JA10026 |
| LED10 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED11 | LED 3MM ULTRA WHITE ROUND | JA10026 |
| LED11 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED12 | LED 3MM ULTRA WHITE ROUND | JA10026 |
| LED12 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED13 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED13 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED14 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED14 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED15 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED15 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED16 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED16 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED17 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED17 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED18 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED18 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED19 | LED 3MM ULTRA WHITE ROUND | JA10026 |
| LED19 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED20 | LED 3MM ULTRA WHITE ROUND | JA10026 |
| LED20 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED21 | LED 3MM ULTRA WHITE ROUND | JA10026 |
| LED21 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED22 | LED 3MM ULTRA WHITE ROUND | JA10026 |

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| LED22 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED23 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED23 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED24 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED24 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED25 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED25 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED26 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED26 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED27 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED27 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED28 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED28 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED29 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED29 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED30 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED30 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED31 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED31 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED32 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED32 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED33 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED33 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED34 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED34 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED35 | LED 3MM ULTRA RED ROUND | JA10025 |
| LED35 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED36 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED36 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| LED37 | LED 3MM ULTRA BLUE ROUND | JA10027 |
| LED37 | LED SPACER 0.1"PITCH 12MM | JZ2230 |
| R3A | MF 0.25W RES 1% 6K8 BL | API369 |
| R3B | MF 0.25W RES 1% 6K8 BL | API369 |
| R3C | MF 0.25W RES 1% 6K8 BL | API369 |
| R3D | MF 0.25W RES 1% 6K8 BL | API369 |
| R4A | MF 0.25W RES 1% 6K8 BL | API369 |
| R4B | MF 0.25W RES 1% 6K8 BL | API369 |
| R4C | MF 0.25W RES 1% 6K8 BL | API369 |
| R4D | MF 0.25W RES 1% 6K8 BL | API369 |
| SW5 | ALPS SWITCH L/TRAVEL VERT | DF0660 |
| SW6 | ALPS SWITCH L/TRAVEL VERT | DF0660 |
| SW7 | ALPS SWT L/TRAVEL VERT MOM | DF0662 |
| SW8 | ALPS SWITCH L/TRAVEL VERT | DF0660 |
| SW1A | ALPS SWITCH L/TRAVEL VERT | DF0660 |
| SW1B | ALPS SWITCH L/TRAVEL VERT | DF0660 |
| SW1C | ALPS SWITCH L/TRAVEL VERT | DF0660 |
| SW1D | ALPS SWITCH L/TRAVEL VERT | DF0660 |
| TR1A | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR1B | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR1C | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR1D | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR2A | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR2B | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR2C | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR2D | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR9A | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR9B | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR9C | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR9D | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR10A | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR10B | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR10C | PNP TRANS 2SB737 LOW RBB | BD0346 |
| TR10D | PNP TRANS 2SB737 LOW RBB | BD0346 |
| VR1 | POT 50KK 9MM VRT MTG TW-ALPHA- | DM10031 |
| VR2 | POT 50KK X2 12MM VERT TA RV112 | DM10042 |
| VR3 | POT 20K 9MM VERT 41 CLKS TWA R | DM10033 |
| VR4 | POT 20KK DUAL 12MM TWA RV112 | DM10035 |
| VR5 | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR101A | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR101B | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR101C | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR101D | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR102A | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |

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| VR102B | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR102C | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR102D | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR103A | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR103B | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR103C | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR103D | POT 20K VRT MTG 9MM C/D TWA RV | DM10029 |
| VR104A | POT 10KAC CD 14MM VERT TWA RVI | DM10034 |
| VR104B | POT 10KAC CD 14MM VERT TWA RVI | DM10034 |
| VR104C | POT 10KAC CD 14MM VERT TWA RVI | DM10034 |
| VR104D | POT 10KAC CD 14MM VERT TWA RVI | DM10034 |
| VR105A | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR105B | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR105C | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR105D | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR106A | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR106B | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR106C | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR106D | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR107A | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR107B | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR107C | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR107D | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR501A | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR501B | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR501C | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR501D | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR502A | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR502B | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR502C | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR502D | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR503A | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR503B | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR503C | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR503D | POT 12MM VERT 20KBX2 TWA RVI I2 | DM10036 |
| VR504A | POT 10KAC CD 14MM VERT TWA RVI | DM10034 |
| VR504B | POT 10KAC CD 14MM VERT TWA RVI | DM10034 |
| VR504C | POT 10KAC CD 14MM VERT TWA RVI | DM10034 |
| VR504D | POT 10KAC CD 14MM VERT TWA RVI | DM10034 |
| VR505A | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR505B | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR505C | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR505D | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR506A | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR506B | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR506C | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR506D | POT 20KK 9MM VRT MTG TW-ALPHA- | DM10030 |
| VR507A | POT 20KK DUAL 12MM TWA RVI I2 | DM10035 |
| VR507B | POT 20KK DUAL 12MM TWA RVI I2 | DM10035 |
| VR507C | POT 20KK DUAL 12MM TWA RVI I2 | DM10035 |
| VR507D | POT 20KK DUAL 12MM TWA RVI I2 | DM10035 |
| XLI | XTAL 12.288MHZ HC49/4 XI01- | ZE10005 |
| XLR1A | JACK/XLR COMBO NCJ6FI-V-0 | FH10004 |
| XLR1B | JACK/XLR COMBO NCJ6FI-V-0 | FH10004 |
| XLR1C | JACK/XLR COMBO NCJ6FI-V-0 | FH10004 |
| XLR1D | JACK/XLR COMBO NCJ6FI-V-0 | FH10004 |
| XLR5A | JACK/XLR COMBO NCJ6FI-V-0 | FH10004 |
| XLR5B | JACK/XLR COMBO NCJ6FI-V-0 | FH10004 |
| XLR5C | JACK/XLR COMBO NCJ6FI-V-0 | FH10004 |
| XLR5D | JACK/XLR COMBO NCJ6FI-V-0 | FH10004 |

PSU BOARD-GIGRAC 1000

| Ident | Description | Part Number |
|-------|---|-------------|
| --- | WIREFORM EARTH GIGRAC E | L-S2010C-01 |
| --- | CABLE TIE XV02- | LZ10008 |
| --- | PCB PSU BOARD GIGRAC 900 | S-S2017B-03 |
| --- | HEATSINK THERMALLOY 7121D XV05- | PN10004 |
| --- | POWER STN MIXER PSU HEATSINK | PN1240 |
| --- | DRIVER MOUNTING CLIP | ZC0231 |
| BRI | BRIDGE REC 35A 600V | BC10004 |
| C1 | (Safety Critical Part)! CAP CER 220PF 250VAC Y2 MURAT | CC8004 |
| C2 | CAP ELEC VERT 1UF 63V SSP 4D 7 | CE0485 |

R-S2017B-03-AF

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| C3 | CAP ELEC VERT 4700 100V LPW | CE0467 |
| C4 | CAP ELEC VERT 4700 100V LPW | CE0467 |
| C5 | CAP CER ML 10N 100V 5MM | CA0027 |
| C6 | CAP CER ML 10N 100V 5MM | CA0027 |
| C7 | (Safety Critical Part)! CAP 275V 1UF X2 XC09- | CX10000 |
| C8 | CAP CER ML 10N 100V 5MM | CA0027 |
| C9 | CAP CER ML 10N 100V 5MM | CA0027 |
| C15 | CAP ELEC VERT 100UF 25V SKP | CE0446 |
| C35 | POLY-CAP 400V 470N XC09- | CC10078 |
| C36 | (Safety Critical Part)! CAP 275V 1UF X2 XC09- | CX10000 |
| C38 | CAP ELEC 2700UF 200V RAD RM10 | CE10055 |
| C39 | CAP ELEC 2700UF 200V RAD RM10 | CE10055 |
| C40 | CAP ELEC VERT 4700 100V LPW | CE0467 |
| C41 | CAP CER 470PF 1000V XC03- | CA10023 |
| C42 | CAP ELEC VERT 100UF 10V TPD SK | CE0403 |
| C43 | CAP ELEC VERT 10UF 400V TKP 10 | CE0509 |
| C44 | CAP ELEC VERT 4700 100V LPW | CE0467 |
| C45 | CAP ELEC 2700UF 200V RAD RM10 | CE10055 |
| C46 | CAP ELEC 2700UF 200V RAD RM10 | CE10055 |
| C47 | (Safety Critical Part)! POLYPROPYLENE 2200PF 250VAC (C | CC0288 |
| C48 | (Safety Critical Part)! POLYPROPYLENE 2200PF 250VAC (C | CC0288 |
| C49 | CAP ELEC VERT 100UF 63V SKP 5M | CE0430 |
| C53 | CAP ELEC VERT 1UF 63V SSP 4D 7 | CE0485 |
| C54 | CAP CER 470PF 1000V XC03- | CA10023 |
| C55 | CAP CER 470PF 1000V XC03- | CA10023 |
| C56 | CAP ELEC 220UF 63V 105C XC06- | CE10033 |
| C57 | MICRO-BOX 5MM 5% 63V 1N | CC0238 |
| C58 | CAP ELEC 220UF 63V 105C XC06- | CE10033 |
| C59 | CAP ELEC 220UF 63V 105C XC06- | CE10033 |
| C60 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C61 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| C63 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C64 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C65 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C66 | CAP CER ML 0.1UF 50V 5MM | CA0026 |
| C67 | CAP ELEC VERT 10UF 63V SKP 5X1 | CE0462 |
| CN1 | (Safety Critical Part)! IEC FILTERED 10AMP CONN XL02- | FJ10005 |
| CN2 | 2WY 0.1 ST&F/L CONN HDR CA-CO | FF10046 |
| CN3 | 5WY 2MM VERT ML HDR CHINA | FF10097 |
| CN4 | SPEAKON ML HORIZ PCB | FK0991 |
| CN5 | SPEAKON ML HORIZ PCB | FK0991 |
| CN9 | JACK SKT MONO SW HORIZ | FH10005 |
| CN10 | JACK SKT MONO SW HORIZ | FH10005 |
| CN11 | 2WY 0.1 ST&F/L CONN HDR CA-CO | FF10046 |
| D1 | DIODE 1N4148 | BA0001 |
| D2 | DIODE 1N4148 | BA0001 |
| D16 | RECTIFIER MUR1640CT XD04- | BC10003 |
| D17 | RECTIFIER MUR1640CT XD04- | BC10003 |
| D18 | RECTIFIER MUR1640CT XD04- | BC10003 |
| D19 | RECTIFIER MUR1640CT XD04- | BC10003 |
| D20 | DIODE 1N4148 | BA0001 |
| D22 | DIODE FAST TYPE EGPI0G 400V 1A | BA10014 |
| D24 | DIODE FAST TYPE EGPI0G 400V 1A | BA10014 |
| D25 | DIODE 1N4007 | BA0010 |
| D26 | DIODE FAST TYPE EGPI0G 400V 1A | BA10014 |
| D27 | DIODE FAST TYPE EGPI0G 400V 1A | BA10014 |
| F1 | (Safety Critical Part)! FUSEHOLDER 10A 250V PCB MTG | ZD0332 |
| FET1 | IRF740 MOSFET TO220 | BD10030 |
| IC5 | (A) PWM CONT SG3525AN XF04- | BZ10000 |
| L1 | FERRITE BEAD AX 5X3.5MM TAPED | HC0021 |
| L2 | FERRITE BEAD AX 5X3.5MM TAPED | HC0021 |
| L3 | CHOKE COMMON MODE TYPE | H-S2017B-01 |
| L4 | INDUCTOR 10UH TOKO R621LY-100K | HC0028 |
| L5 | CHOKE 15 TURN MEDIUM CA-EL | HC10004 |
| L6 | CHOKE 15 TURN MEDIUM CA-EL | HC10004 |
| L7 | INDUCTOR 10UH TOKO R621LY-100K | HC0028 |
| L8 | INDUCTOR 10UH TOKO R621LY-100K | HC0028 |
| OPTO1 | (Safety Critical Part)! OPTO TRANSISTR HI IAVI AVM | BD0396 |
| R1 | RES 47K0 5% 1W MF PROI XA01- | AE10002 |
| R2 | MF 0.25W RES 1% 3K3 BL | AP1361 |
| R3 | MF 0.25W RES 1% 680R BL | AP1345 |
| R4 | MF 1W RES 5% 10R PROI | AE0100 |
| R5 | MF 1W RES 5% 10R PROI | AE0100 |

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| R6 | MF 0.25W RES 1% 100K BL | API397 |
| R7 | RES W/W 22R 17W 5% | AM0069 |
| R8 | MF 0.25W RES 1% 680K BL | API417 |
| R9 | RES 47K0 5% 1W MF PROI XA01- | AE10002 |
| R10 | MF 0.25W RES 1% 220K BL | API405 |
| R11 | MF 0.25W RES 1% 620R BL | API344 |
| R12 | MF 0.25W RES 1% 680R BL | API345 |
| R13 | MF 0.25W RES 1% 15K BL | API377 |
| R15 | ZERO OHM RESISTOR (METAL SLUG) | AZ2222 |
| R16 | MF 0.25W RES 1% 680R BL | API345 |
| R17 | MF 0.25W RES 1% 22K BL | API381 |
| R18 | RES 0R47 5% 2W MF PF02 | AE10036 |
| R84 | RES 50R 5W THICK FILM XA01- | AJ10002 |
| R85 | RES 50R 5W THICK FILM XA01- | AJ10002 |
| R86 | RES 47K0 5% 1W MF PROI XA01- | AE10002 |
| R87 | MF 0.25W RES 1% 20K BL | API380 |
| R88 | MF 0.25W RES 1% 10K BL | API373 |
| R89 | MF 0.25W RES 1% 47K BL | API389 |
| R90 | MF 0.25W RES 1% 470K BL | API413 |
| R91 | 100R 2W MF RESISTOR PRO2 | AE10027 |
| R92 | RES 47K0 5% 1W MF PROI XA01- | AE10002 |
| R93 | MF 0.25W RES 1% 330K BL | API409 |
| R94 | MF 0.25W RES 1% 4K7 BL | API365 |
| R95 | MF 2W RES 5% 150K | AE2154 |
| R96 | MF 0.25W RES 1% 100K BL | API397 |
| R97 | MF 0.25W RES 1% 1M BL | API421 |
| R98 | MF 0.25W RES 1% 100R BL | API325 |
| R99 | MF 0.25W RES 1% 12K BL | API375 |
| R100 | MF 0.25W RES 1% 10K BL | API373 |
| R101 | MF 0.25W RES 1% 10K BL | API373 |
| R102 | MF 1W RES 5% 4R7 PROI | AE0047 |
| R103 | MF 1W RES 5% 4R7 PROI | AE0047 |
| R104 | MF 1W RES 5% 4R7 PROI | AE0047 |
| R105 | MF 1W RES 5% 4R7 PROI | AE0047 |
| R106 | MF 0.25W RES 1% 7K5 BL | API370 |
| R107 | MF 1W RES 5% 10R PROI | AE0100 |
| R108 | MF 0.25W RES 1% 10K BL | API373 |
| R109 | MF 0.25W RES 1% 100R BL | API325 |
| R110 | MF 0.25W RES 1% 100R BL | API325 |
| RLY1 | RELAY SPCO 16A 48V XK06- | DZ10012 |
| RLY2 | RELAY SPCO 16A 48V XK06- | DZ10012 |
| SP1 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP2 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP3 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP4 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP5 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP6 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP7 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP8 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP9 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| SP10 | 1/4" PC MNTNG BLADE VERT | FF0676 |
| TX1 | TRANSFORMER | H-S2017A-03 |
| TX2 | TRANSFORMER FET DRIVER W | H-C300A-01 |
| TH1 | THERMISTOR NTC 12K | AZ10012 |
| TH3 | (Safety Critical Part)! THERMISTOR MAIN VOLTAGE CA-DB | BZ10002 |
| TR1 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR2 | TRANS TIP122 TO220 XE01- | BD10026 |
| TR3 | TRANSISTOR BC556BT PNP TAPED | BD0395R |
| TR4 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR5 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR22 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR23 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR24 | TRANSISTOR BC546BT NPN TAPED | BD0394R |
| TR25 | ZTX651 NPN TRANSISTOR | BD10042 |
| TR26 | ZTX651 NPN TRANSISTOR | BD10042 |
| TR27 | ZTX751 PNP TRANSISTOR | BD10043 |
| TR28 | ZTX751 PNP TRANSISTOR | BD10043 |
| TR29 | TRANS IRG4PC50KD IGBT XE01- | BD10025 |
| TR30 | TRANS IRG4PC50KD IGBT XE01- | BD10025 |
| TR31 | TRANS TIP122 TO220 XE01- | BD10026 |
| ZD10 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |
| ZD11 | ZENER DIODE 500MW 27V | BB0128 |
| ZD12 | ZENER DIODE 500MW 2V7 CA-DB | BB10002 |

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| ZD13 | ZENER DIODE 500MW 24VOLT I | BB10022 |
| ZD2 | ZENER DIODE 500MV 15V CA-DB | BB10005 |
| ZD3 | ZENER DIODE 500MW 6V8 CA-DB | BB10009 |
| ZD4 | ZENER DIODE 400MW 20V | BBA20V0 |

MISCELLANEOUS HARDWARE

| Description | Part Number | Used in: (part number) |
|--------------------------------|-------------|--------------------------------|
| BLK FIBRE 5.54X3.05X.8X.1 WSHR | NC0301 | RW5673, RW5708 |
| CORD-ELASTICATED 3MM DIA. BLK | NZ10017 | RW5673, RW5708 |
| CUP WASHER M6 | NC10025 | RW5673, RW5708 |
| GIGRAC 1000ST OUTER CARTON | TA10032 | RW5673 |
| M3 NYLON INSERT NUT ZINC | NB0113 | R-S2017B-03-AF, RW5673, RW5708 |
| M3 PLAIN NUT ZINC | NB0122 | R-S2010B-03-AF, R-S2010B-04-AF |
| M3 S/PROOF WASHER ZINC | NC0221 | RW5673, RW5708 |
| M3 SPLIT WASHER | NCA0000 | R-S2010B-03-AF, R-S2010B-04-AF |
| M3.5X30 PAN HD SCREW POZIZINC/ | NA10068 | RW5673, RW5708 |
| M3X12MM PAN POZI ZINC SCR | NA0323 | R-S2010B-03-AF, R-S2010B-04-AF |
| M3X30 SPACER HEX BRASS NKL PLT | ND0464 | RW5673, RW5708 |
| M3X6 HEX HD SKT SCREW Z/P | NA10070 | RW5673, RW5708 |
| M3X6 PAN POZI SELF COLOUR ISO | NA0155 | RW5673, RW5708 |
| M3X6MM GRUB SKT HD CONE PNT | NA0313 | RW5673, RW5708 |
| M3X8MM PAN POZI PLTD SCR ISO | NA0116 | R-S2017B-03-AF |
| M4X8 CSK HEX HD SKT SCREWZ/PAS | NA10069 | RW5673, RW5708 |
| M4X8MM PAN POZI SCR ZINC | NA0225 | RW5673, RW5708 |
| M4X8MM PAN POZI TAPTITE ZINC | NA0295 | RW5673, RW5708 |
| NO.4X3/8"PAN POZI S/T BLK SCR | NA0249 | RW5673, RW5708 |
| NO.6X1/4"PAN POZI S/T TYPE B | NA0137 | RW5673, RW5708 |
| NO.8X3/8"PLASTITE BLK | NA0392 | RW5673, RW5708 |
| RIVET 4MM DOMED (MONEL 4.5) | NF0509 | RW5673, RW5708 |
| SPACER NYLON 3.2IDX4.8ODX3.2LG | ND10042 | R-S2010B-03-AF, R-S2010B-04-AF |
| VIB RES CRIMP TAG V3 TIN PLT | NE0415 | L-S2010C-01 |