Manufactured by: Transtel Sabima Ltd.
Duboisstraat 50
B-2060 Antwerpen Belgium
Phone: 00 32(0)3/237-36-07
Fax: 00 32(0)3/216-97-62
e-mail: info@rodec.be
URL: http://www.rodec.be

SERVICE MANUAL MX1400/MX1800/MX2200/MX3000

Version: 1.0

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2.0.0. OPERATING INSTRUCTIONS GENERAL

2.1.0. ELECTROMAGNETIC AND SAFETY COMPLIANCES

- This product complies with the European Electromagnetic Compatibility Directives 89/336/EEC & 92/31/EEC and the European Low Voltage Directives 73/23/EEC & 93/68/EEC.

- In accordance with the provisions of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility**,** this product is in conformity with the following specifications:

  NEN-EN 55103-1: Electromagnetic compatibility.

  Product family standard for audio, video, audio-visual entertainment lighting control equipment for professional use. Part 1: Emission. (September 1995)

  NEN-EN 55103-2 Electromagnetic compatibility.

  Product family standard for audio, video, audio-visual entertainment lighting control equipment for professional use. Part 2: Immunity. (September 1995)

- This product is designed to comply with the following standards:

  UL 60950 3rd edition (2000) standard

  TUV EN 60950: 1992+A1+A2+A3+A4+A11 (1997) standard

2.2.0. IMPORTANT SAFETY INSTRUCTIONS

PLEASE READ INSTRUCTIONS BEFORE OPERATING THE EQUIPMENT

2.2.1. GENERAL

1) For your own safety please read the user manual before operating or connecting the unit.
2) The user manual must be in possession of the owner of the mixing panel. This manual must be kept in a safe place for future reference.
3) The mixing panel must be connected to a mains power supply with appropriate grounding. This is necessary for the optimal working of the mixing panel and to assure the safety of the user.
4) Always handle the power cord by the plug, do not pull the cord. Do not use damaged power cord or plug. Damaged power cords or plugs can cause fire or create a shock hazard.
5) Do not open the unit. There are no serviceable parts inside. Only qualified service technicians can service the unit.
6) Do not expose to rain or water. Do not spill liquid or insert objects inside the unit. Rain, water or liquid such as cosmetics as well as metal may cause electric shocks, which can result in fire or shock hazard. If anything gets inside, immediately unplug the power cord.
7) If the mixing panel is not used for a longer period (more than one day), it is recommended to disconnect the unit from the power supply. Switching off the power switch does not completely isolate the mixing panel.
8) **WARNING!** The sound and intensity volume of this product can be very strong and, if not used properly or if used in close proximity, can cause temporary or permanent damage to one's hearing, perhaps even deafness. Use with caution and common sense.

2.2.2. INSTALLATION OF THE MIXING PANEL

1) The set can be used in every position.
2) Do not place the set into direct sunlight or in a warm, humid or dusty place. The operating environment temperature should be between +5°C and +35°C. The relative humidity of the air should not exceed 85%.
3) Always place the unit in a well ventilated area.
4) To avoid disturbances, do not place the set near disturbing equipment such as transmitters, cell phones, electrical motors.
5) Avoid dust e.g. cigarette ashes on the mixing panel. Also avoid smoke e.g. smoke machines or cigarettes from entering the unit. Smoke will accelerate wear on the electronic circuits, potentiometers and faders of the mixing panel.
6) Do not place heavy or sharp objects on the mixing panel as these can damage the knobs, switches, LEDs.
7) Manipulate the console with care. Avoid abrupt movements of the controls.
8) If the mixing panel has to be transported, please use the original packaging or use an fitting flight case. Avoid shocks.

2.2.3. CLEANING OF THE MIXING PANEL

1) Do not use chemical products or solvents to clean the set. To clean the mixing panel, it is best to use a soft brush or a dry lint-free cloth.
2) Do not apply contact spray or other products in the faders as these products can damage the faders.

2.3.0. WELCOME MESSAGE

Congratulations with the purchase of a RODEC MX1400 / MX1800 / MX2200 / MX3000 mixing panel!
You are the owner of a top-line mixing panel, capable of outstanding performance in combination with other high-grade systems.

RODEC mixing panels have a reputation for high quality, robust built and a good sound. RODEC mixers are used in the top league discotheques, by the most famous DJ's and by the largest professional rental companies all over the world.

The new top-line series have been designed and built with the same precision and devotion as known for years. The well known analogue sound has been kept and has been completed with new digital features and I/O.

This User Manual will guide you through the setup of the mixing panel and will describe in detail all connectors, controls and operational features of the equipment, as well as different application setups.

Further information about this mixing panel can be found on our website:
http://www.rodec.com

For questions, more information or service needs of your mixing panel, contact the distributor or service center in your country. RODEC possess a widely branched network of distributors and service centers worldwide. The RODEC distributor list can be found on our website.

Please always mention serial number, date and place of purchase for all matters concerning service.

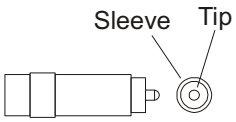
MODEL MX1400 / MX1800 / MX2200 / MX3000
SERIAL NUMBER …… (on the back of the set)

Although this manual has been compiled with utmost attention, we do not assume responsibility for inaccuracies. Updates or modifications can be applied without prior notice.

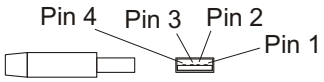
2.4.0. CABLE CONFIGURATIONS

2.4.1. DIFFERENT AUDIO CONNECTORS

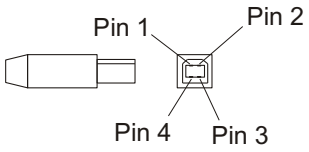
RCA (Cinch) male



USB A male



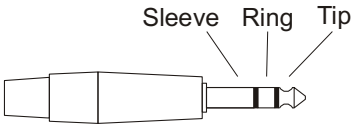
USB B male



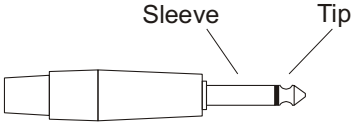
PHOENIX 4 pole female



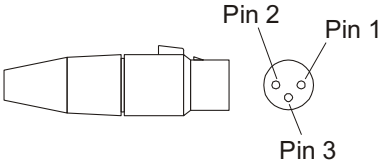
JACK 3 pole 1/4 inch male



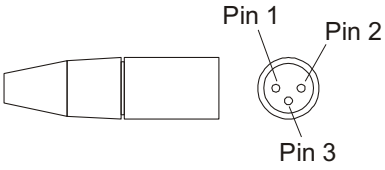
JACK 2 pole 1/4 inch male



XLR 3 pole female



XLR 3 pole male



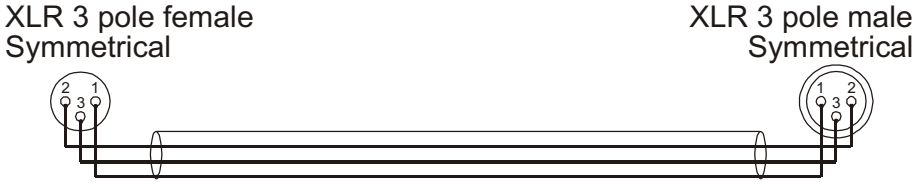
2.4.2. DIFFERENT AUDIO CABLES

1) Asymmetrical RCA cable:



Used for connections between: CD-player, MD-player/recorder, Vinyl turntable, DVD-player/recorder, amplifier, etc. and mixing panel.
For connections of analogue signals, you need 2 of these cables for stereo
For connections of digital S/P DIF, you need only 1 cable for stereo

2) Symmetrical XLR cable:



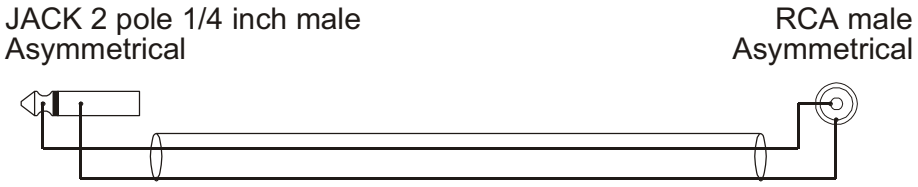
Used for connections between: microphone, amplifier, equalizer, loudspeaker-processor, limiter, etc. and mixing panel.
For connections of analogue signals, you need 2 of these cables for stereo

3) Symmetrical XLR female to JACK 3pole male cable:



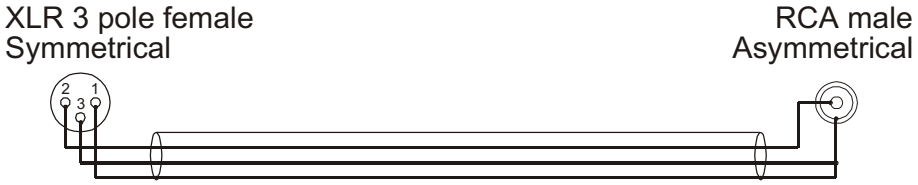
Used for connections between: microphone, amplifier, loudspeaker-processor, etc. and mixing panel.
For stereo connections, you need 2 of these cables

4) Asymmetrical JACK 2 pole male to RCA male cable:



Used for connections between: electronic musical instrument, synthesizer, sampler, effects-machine, amplifier, recorder, etc. and mixing panel.
For stereo connections, you need 2 of these cables

5) Symmetrical XLR female to asymmetrical RCA male cable:



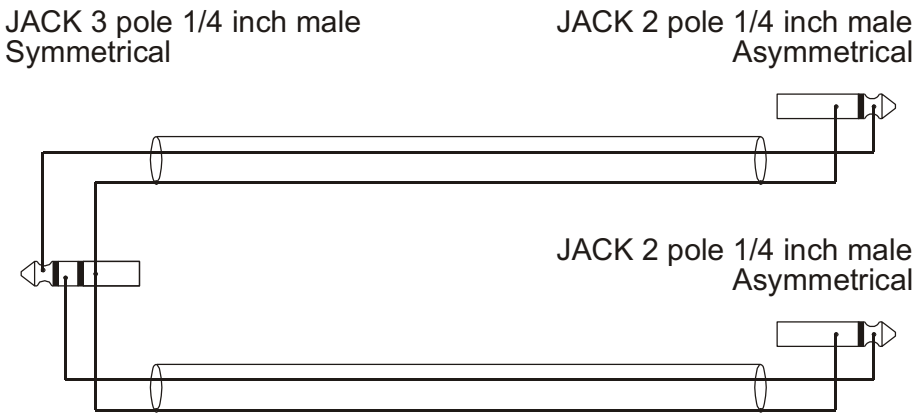
Used for connections between: professional CD-player, professional MD-player, sampler, effects-machine, etc. and mixing panel.
For stereo connections, you need 2 of these cables

6) Asymmetrical RCA male to symmetrical XLR male cable:



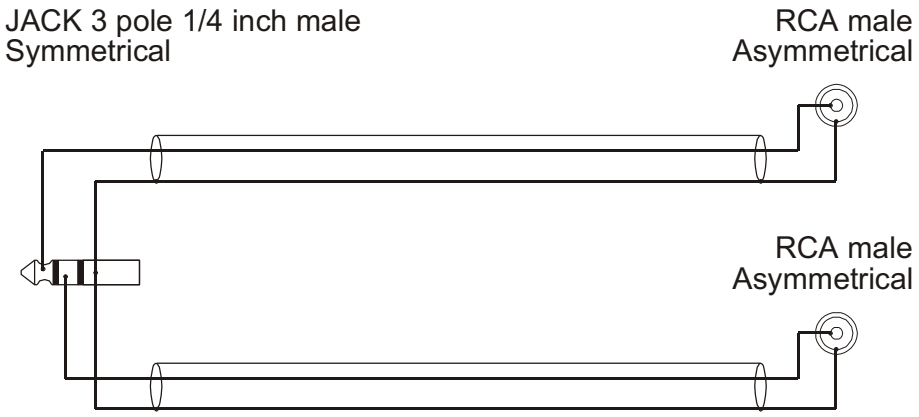
Used for connections between: professional recorder, sampler, effects-machine, amplifier, etc. and mixing panel.
For stereo connections, you need 2 of these cables

7) JACK 3 pole 1/4 inch male to 2 times JACK 2 pole 1/4 inch male (Y-split) cable:



Used for connections between: effects-machine, audio-filter, delay-loop, etc. and mixing panel.
For stereo connections, you need 2 of these cables.
The upper 2 pole JACK is the signal send cable, this has to be connected to the input of the effects-machine.
The lower 2 pole JACK is the signal return cable, this has to be connected to the output of the effects-machine.

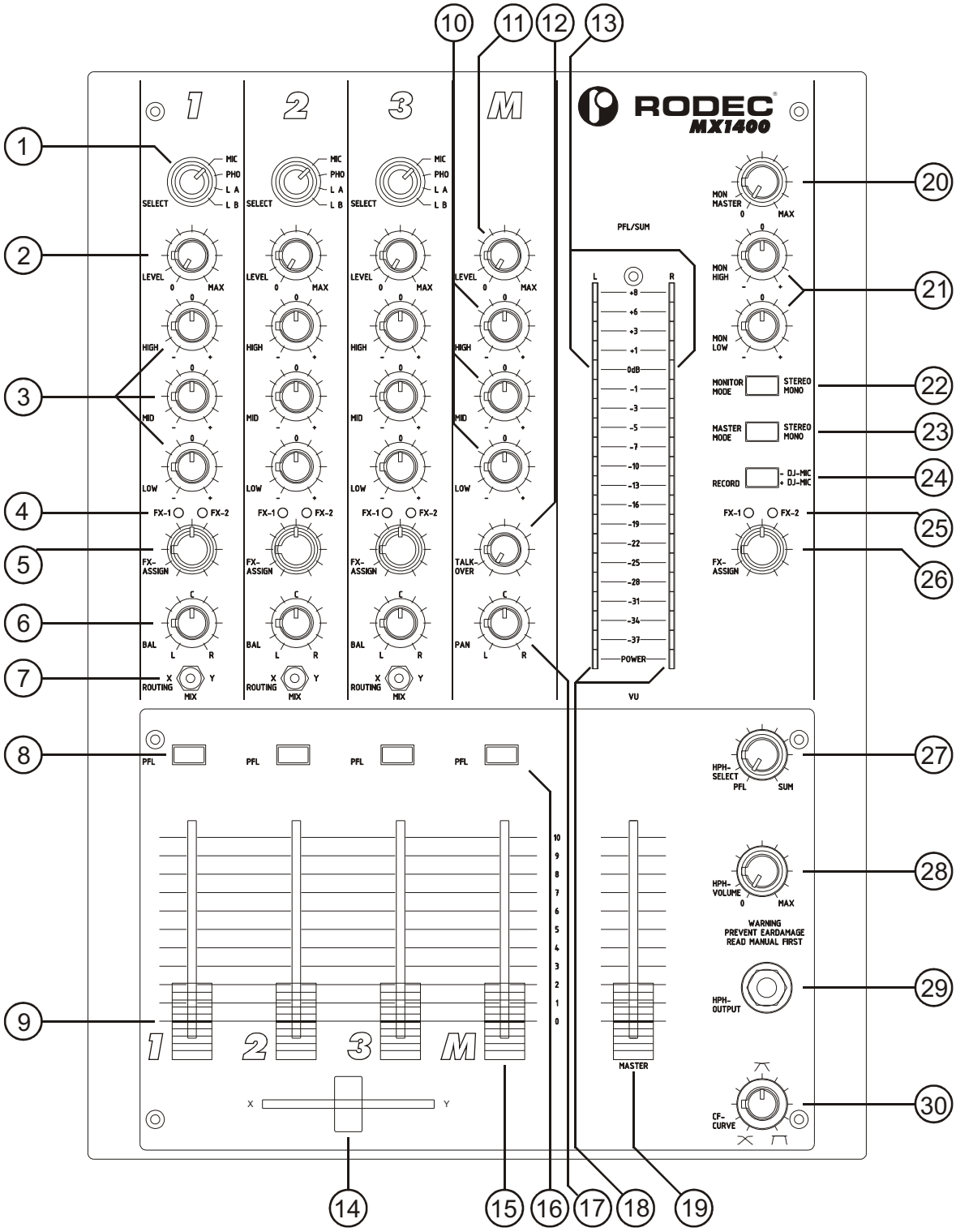
8) JACK 3 pole 1/4 inch male to 2 times RCA male (Y-split) cable:



Used for connections between: effects-machine, audio-filter, delay-loop, etc. and mixing panel.
For stereo connections, you need 2 of these cables
The upper RCA is the signal send cable, this has to be connected to the input of the effects-machine.
The lower RCA is the signal return cable, this has to be connected to the output of the effects-machine.

3.0.0. OPERATING INSTRUCTIONS MX1400

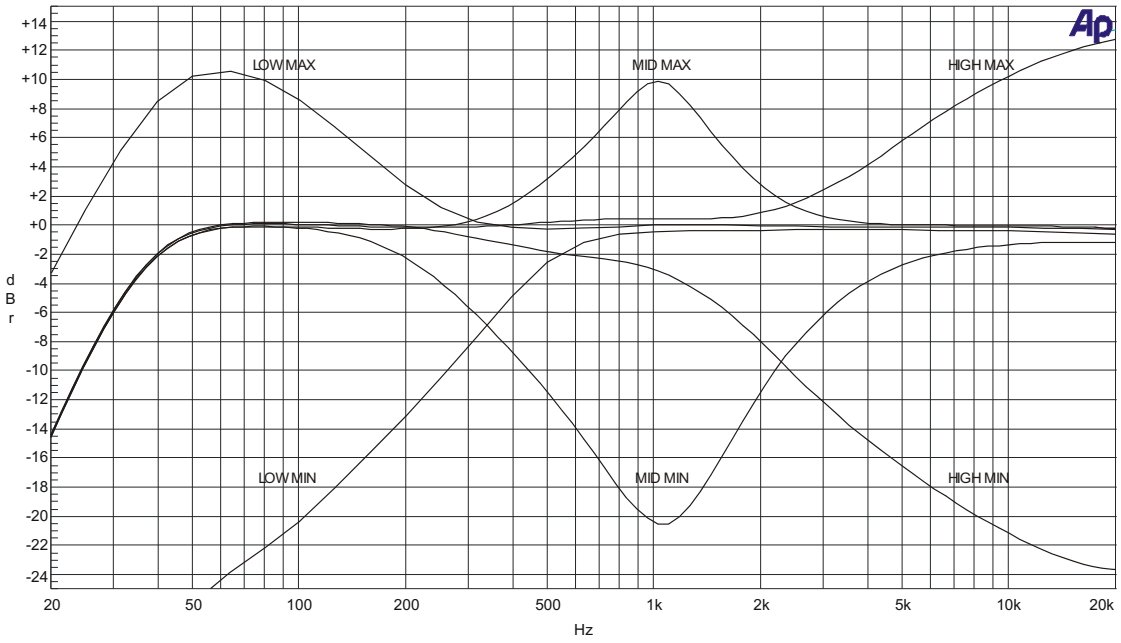
3.1.0. FRONTPANEL WITH CONTROLS



1) **Input select switch**
This selector is used to select the input signal: MICRO, PHONO, LINE A or LINE B.

2) **Input level potentiometer**
With this control the input level of each input channel can be set.

3) **Equalizer controls**
These controls regulate Treble, Middle and Bass levels.



4) **Input channel effects assign indication LED's**
These LED's indicate which channel is routed through one of the effects outputs. If the FX-1 and FX-2 LED's do not light up, no channel is routed via the effects. If the FX-1 LED of a channel lights up green, that channel is routed via effects output 1. If the FX-1 LED of a channel lights up red, one of the other channels is routed via FX-1 and no other channel can be routed via FX-1 at that moment.
Same counts for the FX-2 LED that lights up. If the FX-1 LED is blinking red, the input channel effects assign potentiometer (5) must be turned back to its center position because it was initially placed in a fault position.

5) **Input channel effects assign potentiometer**
With this control, the input signal can be routed via effects output 1 or 2. When the knob is placed in the center (12 o'clock) position, the signal goes straight to the main mix without passing via one of the effects-outputs. When the knob is turned to the left, the signal will go via the effects 1 output. When the knob is turned to the right, the signal will go via the effects 2 output. The proportion between the dry (no effect) and wet (100% effect) can be set with the potentiometer.

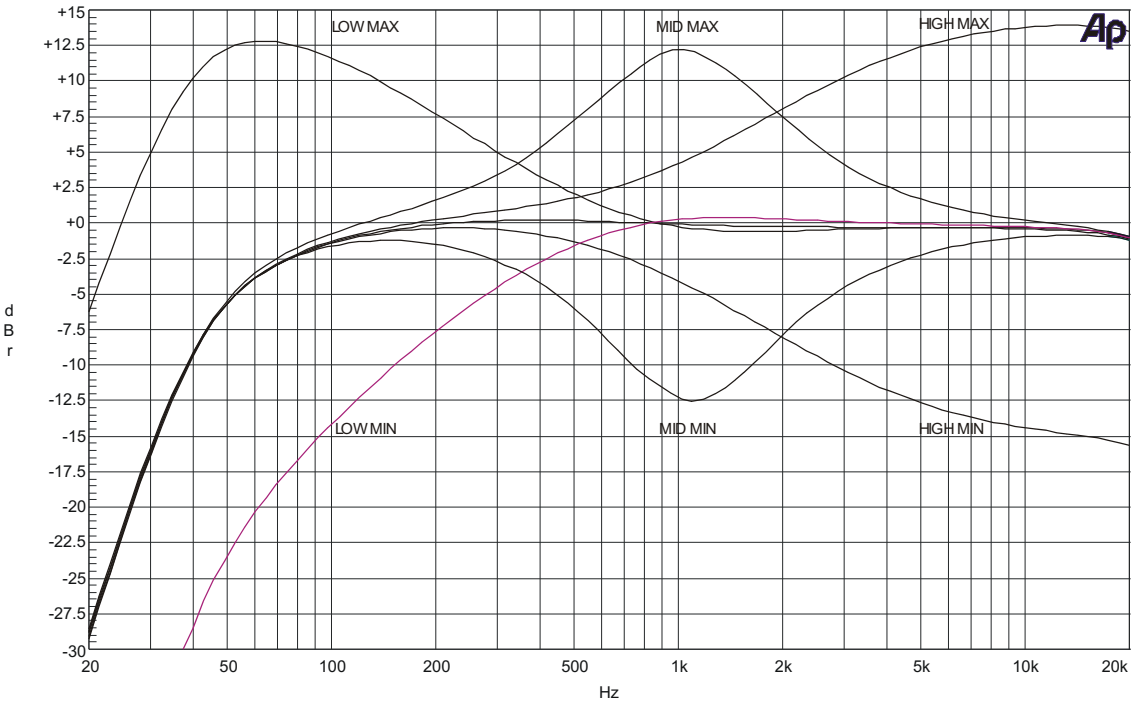
6) **Balance control**
The balance between Left and Right channel is adjusted by using this knob. When it is set to the center position, the gain is the same for both channels. When turned to the left, the right channel will decrease. When turned to the right, the left signal will decrease.

7) **Routing selector**
With this selector the signal can be lead: to the left side of the crossfader (X), directly to the output (MIX) or to the right side of the crossfader (Y).

8) **PFL switches**
With these switches you can select the different input sources for the headphones.

9) **Channel faders**
Volume control for every input channel.

10) **Equalizer**
Triple tone control for DJ microphone.



11) **DJ microphone input level potentiometer**
Control for accurate level-adjustment of different types of microphones.

12) **Talk-over control**
Control for the amount of music suppression controlled by the DJ microphone signal.

13) **VU meters**
The two meters indicate the PFL signal. When no PFL-switch (8) is pressed, the VU-meter displays the mixed signal.

14) **Crossfader**
With this fader you can easily fade over between the channels with routing-selector (7) on X-position and the channels with routing-selector (7) on Y-position. When the knob is turned completely to the left, the signal of the channels with routing selector (7) on X will appear on the output. When the knob is turned completely to the right, the signal of the channels with Routing selector (7) on Y will appear on the output. In between there will be a mix of both signals.

15) **DJ microphone fader**
Volume control for DJ microphone

16) **DJ microphone PFL switch**
With this switch the microphone signal can be made audible in the headphones and made visible on the left VU-meters.

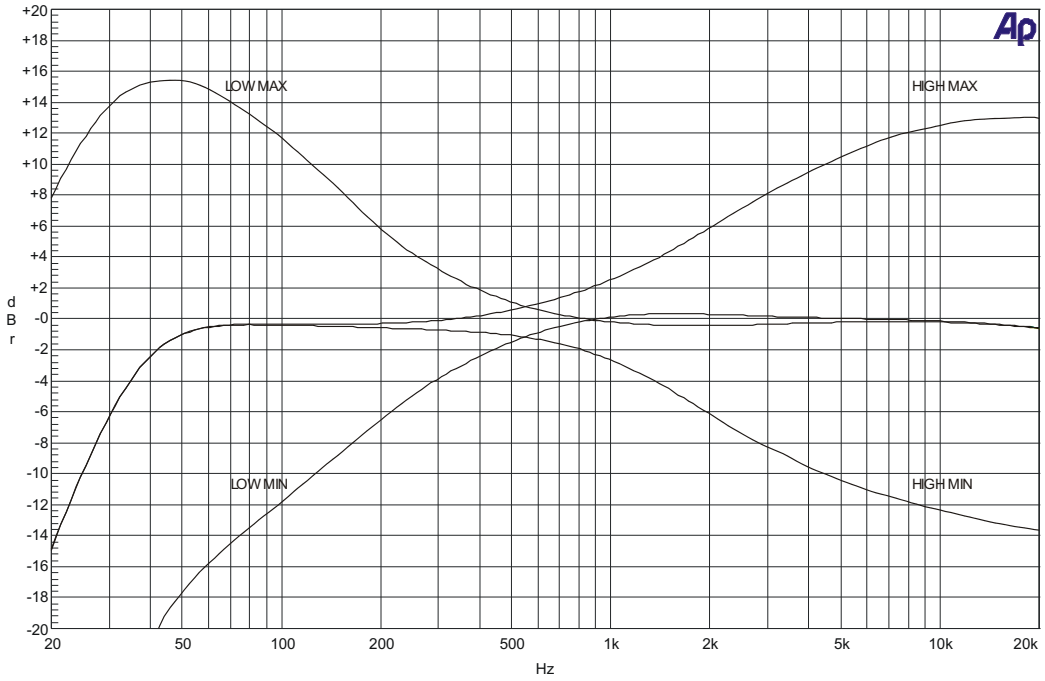
17) **Pan Mic**
Panoramic control for DJ microphone input. With this button you can position the microphone signal between the left and right loudspeaker.

18) **Power "ON" indicators**
These indicators light up when the power is on.

19) **Master fader**
Volume controls final output of mixer towards slave or integrated amplifiers.

20) **Monitor output potentiometer**
Volume control for the signal level for the monitor output, this output does not contain the DJ-mic signal to avoid feedback of the microphone-signal via the monitor loudspeakers.

21) **Monitor equalizer controls**
Bass and treble adjustment for the monitor output.



22) **Monitor mode Switch**
This switch is used to set the monitor output in mono or stereo mode.

23) **Master 1 mode Switch**
This switch is used to set the master 1 output in mono or stereo mode.

24) **Record Select**
This switch is used to make recordings with or without the DJ microphone.
+ DJ MIC: in this position you add the DJ mic signal to the music.
- DJ MIC: in this position you only record the signal from channel 1 - 4.
This switch has no influence on the master outputs.

25) **Main mix effects assign indication LED's**
These LED's indicate if the main mix signal is routed through one of the effects outputs. If the FX-1 and FX-2 LED's do not light up, the main mix signal is not routed via the effects. If the FX-1 LED lights up green, the main mix signal is routed via effects output 1. If the FX-1 LED lights up red, an input channel's signal is routed via FX-1 output and no other channel can be routed via FX-1 at that moment.
Same counts for the FX-2 LED that lights up. If the FX-1 LED is blinking red, the main mix effects assign potentiometer (26) must be turned back to its center position because it was initially placed in a fault position.

26) **Main mix effects assign potentiometer**
With this control, the main mix signal can be routed through effects output 1 or 2. When the knob is placed in the center (12 o'clock) position, the signal goes straight to the main mix without passing through one of the effects-outputs. When the knob is turned to the left, the signal will go through the effects 1 output. When the knob is turned to the right, the signal will go through the effects 2 output. The proportion between the dry (no effect) and wet (100% effect) can be set with the potentiometer.

27) **Headphones-select potentiometer**
With this potentiometer, the signal for the headphones output can be selected. When turned completely to the left, the signal selected with the channel PFL-switches (8) appears on the headphones. When turned completely to the right, the mix-signal appears on the headphones. In between it results in a mix of the PFL-signal and the mix-signal.

28) **Headphones volume control**
The volume of the headphones can be adjusted with this knob.

WARNING! The sound and intensity volume of the headphones amplifier can be very strong and, if not used properly, or if used in too close proximity, can cause permanent or temporary damage to one's hearing, perhaps even deafness.

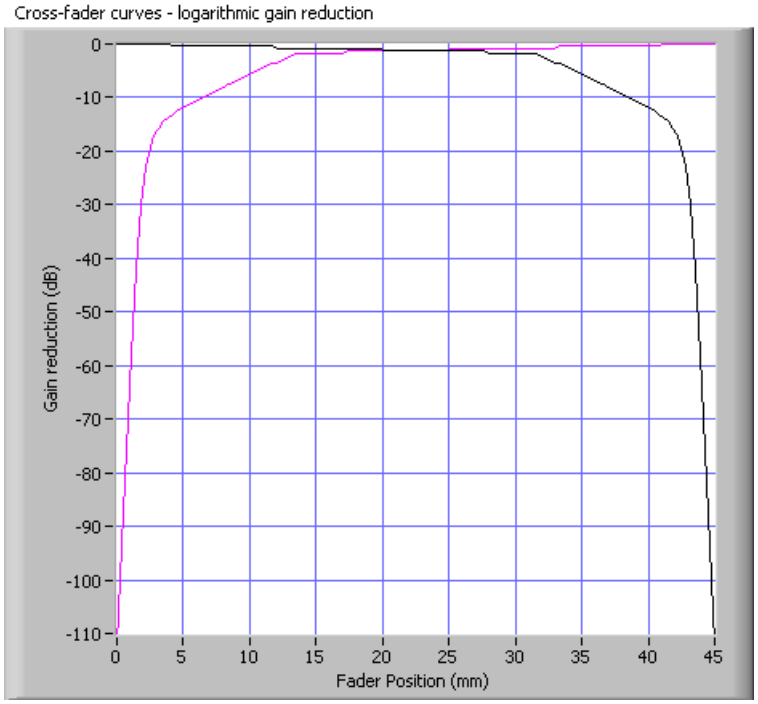
Please use with caution and common sense!

29) **Phones output**
Output for high level headphones monitoring. With the PFL switches (8) and the headphones-select potentiometer (27), the connected audio sources or the main-mix can be made audible without manipulating the output signal (Headphones 32-600□).

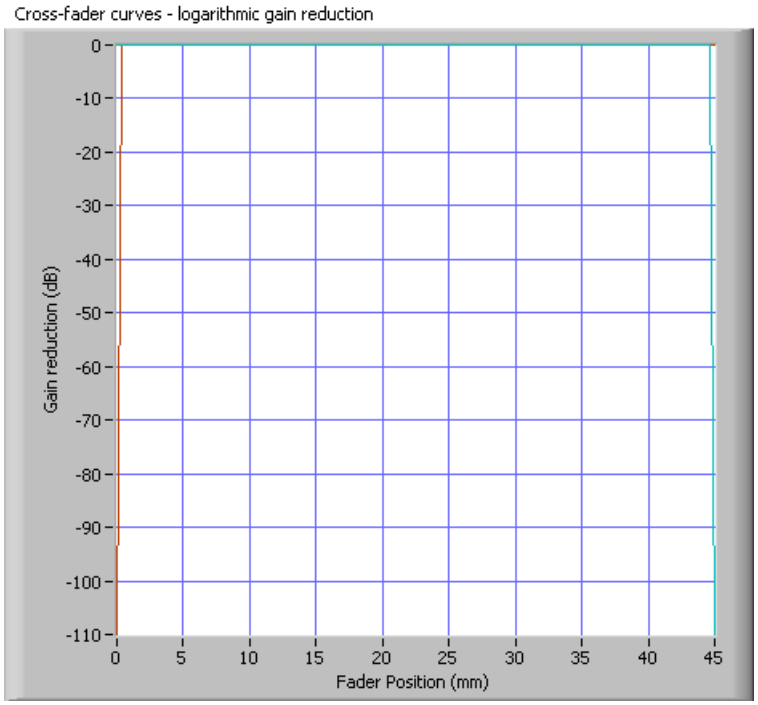
ATTENTION! Always turn headphones volume to "0" (fully counter clockwise) **BEFORE** putting the headphones on your or somebody else her/his ears! Then slowly raise the volume by turning the volume knob in clockwise direction.

30) **Cross fader curve potentiometer**

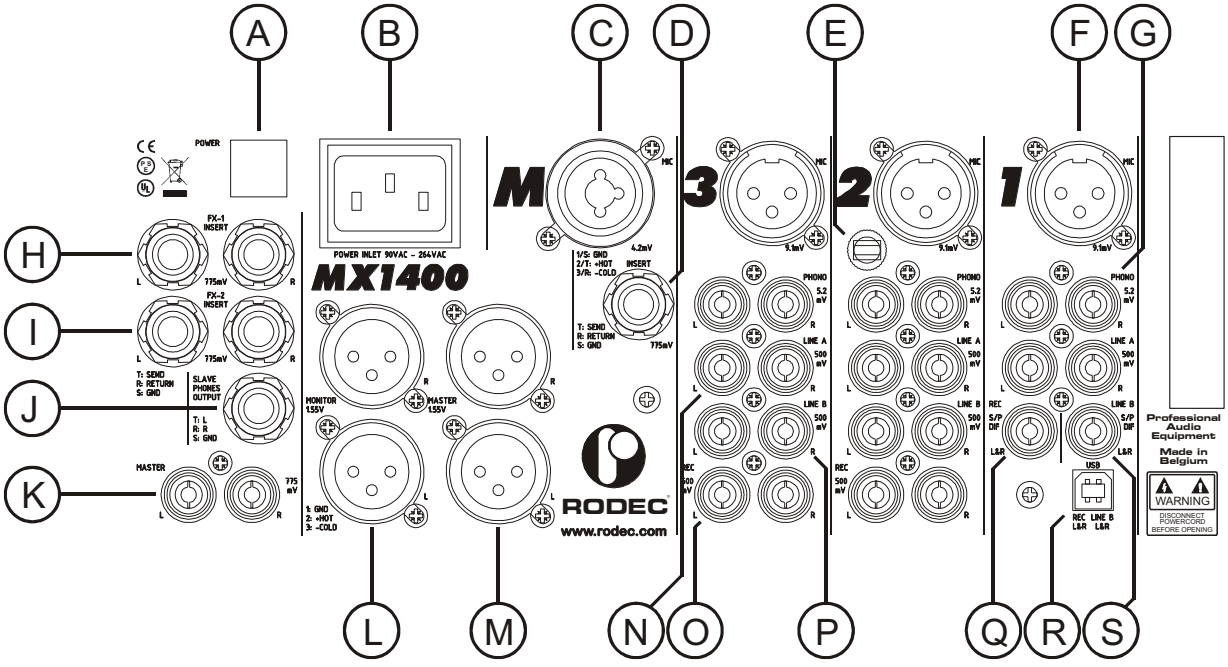
This potentiometer is used to set the sharpness of the cross fader. When the potentiometer is turned completely to the left, the cross fader (14) will react as a normal cross fader. The volumes of the channels with routing-selector (7) on Y-position will rise from 0 to maximum when the shaft of the cross fader is moved from the left to the middle. The same counts for the volumes of the channels with routing-selector (7) on X-position, but then from the right side to the middle.



When the curve potentiometer is turned to the right, the cross fader will react very fast, with the volumes of the channels with routing-selector (7) on Y-position rising from 0 to maximum when the shaft of the cross fader is moved from the left to a few fractions from the left. The same counts for the volumes of the channels with routing-selector (7) on X-position, but then from the right side to a few fractions from the right side.



3.2.0. BACKPANEL WITH CONNECTORS



A) **Power switch**
Controls the supply of AC power to the set. A single push turns on the mixing panel, a second push turns it off.

Attention! By turning off this switch, the mixing panel is in stand-by mode. At that moment the mixing panel will still consume electricity from the mains net. The power cord has to be unplugged from the power inlet to shut down all power.

B) **Power inlet**
Universal mains power inlet.

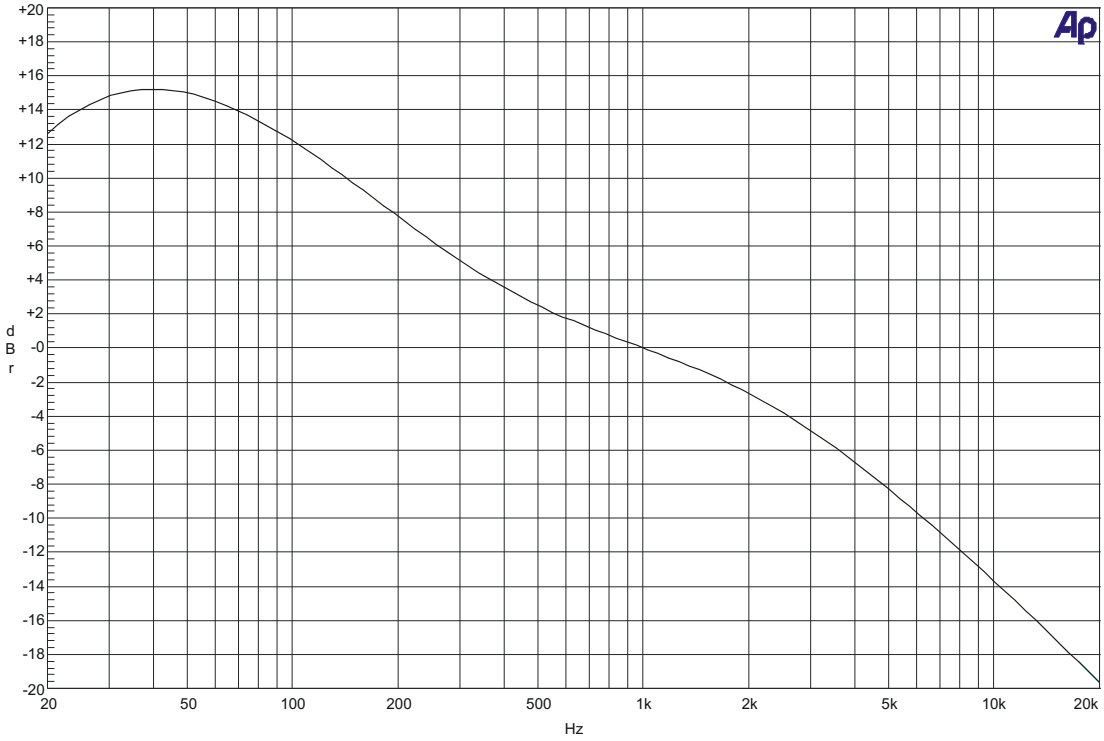
C) **DJ microphone input**
Balanced microphone input with a sensitivity of 4.2mV, with XLR-JACK combination connector.

D) **Effects IN/OUT**
Input and output to connect effect equipment to the microphone channel. If there is no plug in the JACK connector, the microphone channel works normally, if there is a plug inserted in the JACK, the internal link is interrupted. The sensitivity of this IN/OUT connection is 775mV.

E) **Ground-terminal**
Terminal to connect the ground wire of the vinyl turntable.

F) **Micro input**
Balanced microphone input. To obtain good signal quality, you have to use a microphone with balanced output. The use of a microphone without balanced output is also possible.

G) **PHONO input**
Phono input with a sensitivity of 5.2mV and built in RIAA correction.



H) **Effects IN/OUT 1**
In- and output to connect effect equipment to the music signal. The signal that runs through this connector is controlled by the input channel effects assign potentiometer (5) or main mix effects assign potentiometer (26). Internally linked when JACK is not inserted. Sensitivity 775mV.

I) **Effects IN/OUT 2**
In- and output to connect effect equipment to the music signal. The signal that will run through this connector is controlled by the input channel effects assign potentiometer (5) or main mix effects assign potentiometer (26). Internally linked when JACK is not inserted. Sensitivity 775mV.

J) **Second headphones connector**
Signal identical as headphones-output on the frontpanel (29). The specifications are the same as the headphones output on the frontpanel.

K) **Asymmetrical master output**
Asymmetrical output to connect a power-amplifier. The output level can be manipulated with master fader (19) from 0 to maximum (0.775V).

L) **Symmetrical monitor output**
Additional output up to 1.55V controlled by monitorpotentiometer (20). The DJ-microphone signal does not appear on this output.

M) **Symmetrical master output**
Symmetrical output to connect a power-amplifier or loudspeaker-processor. The output level can be manipulated with master fader (19) from 0 to maximum (1.55V).

N) **Analogue line input A**
Analogue asymmetrical input with a sensitivity of 500mV, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player, analogue - or digital tuner, cassette player or video player.

O) **Analogue recording output**
Output to connect analogue recording device or (HIFI) video recorders to make recordings. This output can be switched with or without recording the DJ microphone signal (24). (Only provided on channels 2, 3 and 4)

P) **Analogue line input B**
Analogue asymmetrical input with a sensitivity of 500mV, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player, analogue - or digital tuner, cassette player or video player. (Only provided on channels 2, 3 and 4)

Q) **Digital recording output**
Output to connect to a S/P DIF input of a MD-recorder, CD-recorder, HD-recorder or DAT-recorder to make recordings. This output can be switched with or without recording the DJ microphone signal (24). Both signals (left and right) go through one connector. (Only provided on channels 1 and 5)

R) **USB input/output**
Optional USB connector to play music from PC or HD-player and simultaneously record the main mix signal with a PC or HD-recorder. All 4 signals (reproduction left and right and recording left and right) go through one connector. (Only possible on channels 1 and 5)

S) **Digital line input B**
Digital S/P DIF input, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player or digital tuner. Both signals (left and right) go through one connector. (Only provided on channels 1 and 5)

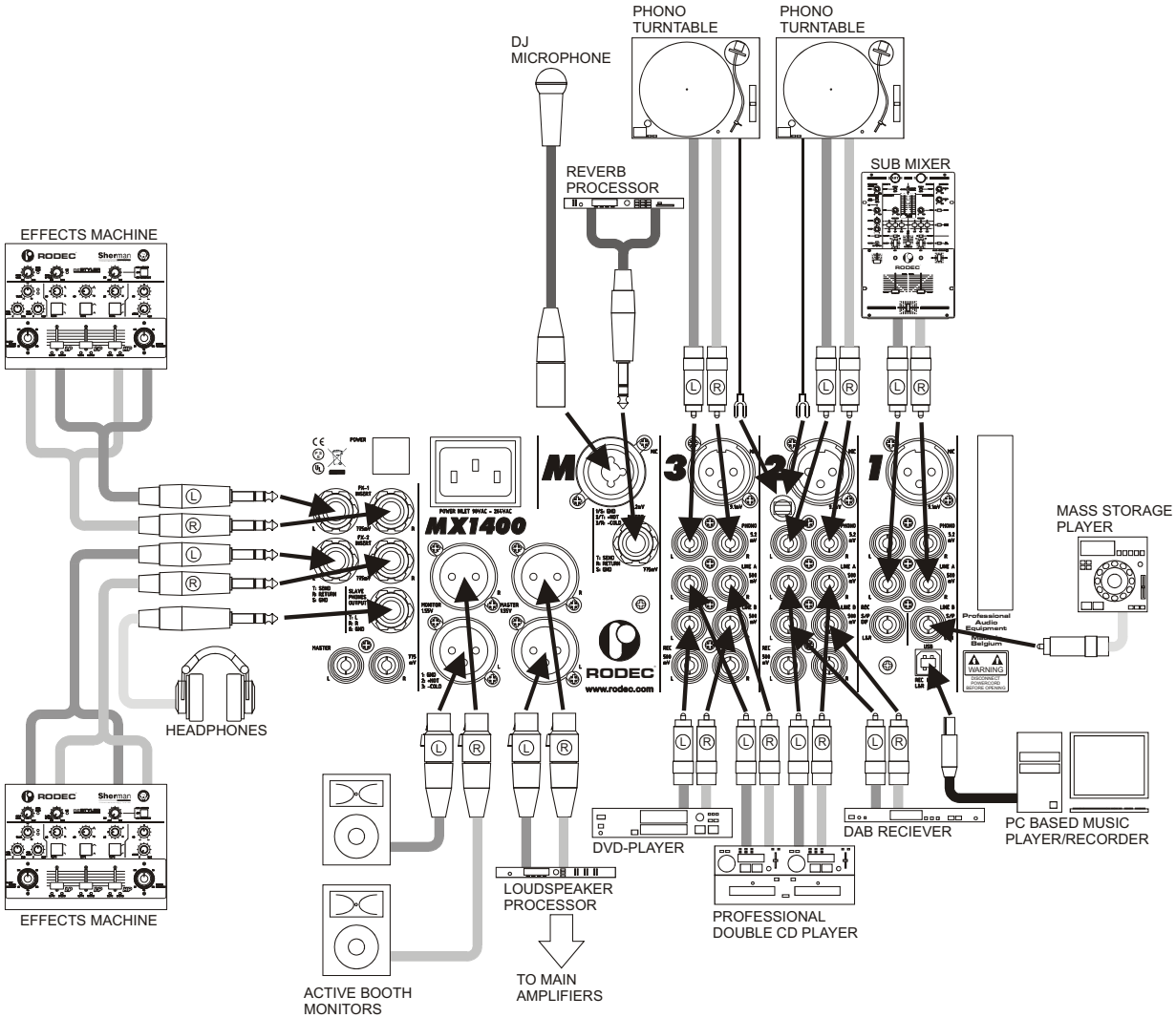
Please use signal cables shorter than 1 meter for the inputs and the outputs.

3.3.0. OPERATING INSTRUCTIONS

For correct operation of the mixing panel, please follow the instructions below.

1) Before connecting anything to the mixing panel, be sure all equipment is turned off. Then connect the different audio sources, amplifiers, effects-units, headphones, etc.. Next step is to turn on the audio sources and effects-units.
   When all these units are in ready state, you can switch on the power switch (A) of the mixing panel. The power indicators (18) will light up.

   After 5 seconds, you can turn on the loudspeaker processors and amplifiers.



2) Connect the headphones to the headphones JACK connector (29) or (J). Use headphones with impedance between 32 and 600Ω.

   ATTENTION! Always turn headphones volume to “0” (fully counter clockwise) **BEFORE** putting the headphones on your or somebody else her/his ears! Then slowly raise the volume by turning the volume knob in clockwise direction.

3) Choose with the input select switch (1) the right audio-source.

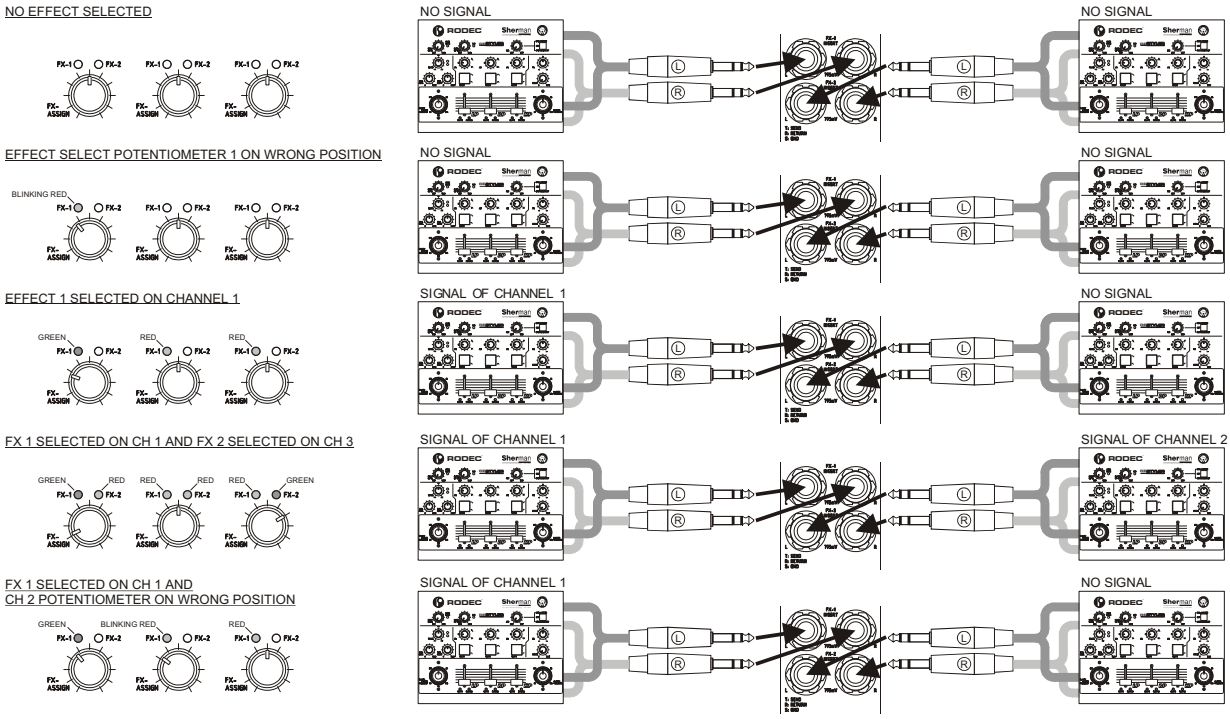
4) Switch the PFL button (8) in position ON to listen at the desired source. Turn the phones select button (27) completely to the left and turn the phones volume potentiometer (28) to the desired position to get the stereo signal on the headphones and the two left VU-meters. The PFL circuit works as a sum-system, there is a possibility to listen to more sources at the same time. All these operations have no influence on the output signal! Adjust with the level control (2) the input signal until the red indicators of the level meters (13) will light up occasionally. Adjust if necessary the quality of the sound with the equalizer (3).

   LOOK OUT: The equalizer at each input is used to manipulate the sound of each of the input sources. To correct the acoustic of the room it is probably best to use an external equalizer.

5) To send the input signal through one of the effects outputs, first check if the desired effects bus is free. This can be done by checking the input channel effects assign indication LED’s (4). If the FX-1 LED does not light up, the FX-1 bus is free. If the FX-2 LED does not light up, the FX-2 bus is free. If one of the LED’s is blinking red, the input channel effects assign potentiometer (5) is in a wrong position. Then first turn the input channel effects assign potentiometer to its 12 o’ clock position, so the LED will stop blinking. To select the FX-1 bus, turn the input channel effects assign potentiometer to the left, first, no effect will be audible, but the influence of the effect will increase when the potentiometer is turned further to the left. When the potentiometer is completely to the left, 100% of the signal will be influenced by the effect.
   The same procedure can be followed to select FX-2, but then the potentiometer has to be turned to the right.

   When the FX-1 bus is selected, the according LED will light up green, same for the FX-2 bus.

   On the other input channels and on the main mix, the according LED will light up red, to indicate the according effects-bus is occupied.



6) Open up the fader (9) of the chosen input channel

7) Slide up master fader (19) till desired volume is reached. Also open the monitor potentiometer (20), to hear the music at the DJ-booth.

8) The music in the DJ-booth can be manipulated with the monitor equalizer (21).

9) Correct if necessary the balance with button (6), for monophonic sound on master output set switch (23) in mono position. For monophonic sound on monitor output, set switch (22) in mono position.

10) If you like to use the crossfader (14), you can route the channel to the left (X) side of the crossfader by putting the routing switch (7) on CF-X position. Or to the right (Y) side of the crossfader when you put the routing switch (7) on the CF-Y position. The response curve of the cross fader (14) can be adjusted with the cross fader curve potentiometer (30).

11) To change the source, repeat point 3) to 6).

12) By turning the headphones select potentiometer (27) more clockwise, you will increase the amount of the main mix signal in the headphones.

13) To add a microphone signal, connect the microphone to the MIC input (C). Turn the level control (11) and the talk-over (12) to zero, slide up the MIC fader (15) to maximum and adjust with the level button (11) the volume of the microphone. Adjust with the equalizer (10) the sound of the microphone. To use the talk over, adjust the talk over button (12) (0= no decrease, 10= total decrease). With the pan MIC (17), the DJ microphone signal can be placed somewhere between left and right. Eventually you can connect an external processor (example: compressor or reverb) to the effects insert (D) of the microphone channel.

14) The mixed signal can be recorded, simply by connecting a recorder to the analogue (O) or digital (Q) record-connectors. Depending on the position of the record-select switch (24) you can decide if the microphone signal is also recorded or not. The mixed signal can also be recorded with a computer through the optional USB connector (R).

15) The main mix signal can also be lead to one of the effects insert outputs. This can be done in the same way as leading the signal of an input channel to the effects insert outputs, follow the instructions of point 5). The effects assign indication LED's for the main mix are LED's (25). The effects assignation for the main mix can be done with the main mix effects assign potentiometer (26).

16) When no PFL is selected with the PFL switches on the input channels (7), the mixed signal will appear on the VU-meters. If you like to compare via the VU-meters the pre-fade signal with the output signal, you can do this by switching all PFL switches off first. Then switch the PFL switch of the input channel you wish to compare with the mixed signal, on an off. In that way, both signal levels can be compared.

3.4.0. SUBSONIC FILTER

The two master outputs and the monitor output have a subsonic filter to protect the bass loudspeakers from DC and subsonic signals. This filter cannot be switched off. The filter gives a reduction of 25dB at 10Hz.

3.5.0. OPTIONS

1) **USB I/O set MX00**

Optional input/output kit to connect the mixing panel with a computer. The USB connector contains 1 stereo input signal and 1 stereo record output signal. With this option music can be played from a computer via USB. Simultaneous the mixed music can be recorded via the computer. The option must be built in as follows: First pull off the fader knobs (9, 14, 15 & 19) at the frontpanel. Then unscrew the aluminum fader cover plate (4 screws). Take of this aluminum plate. Then unscrew the bottombox, 2 screws at the frontpanel, one screw at each side and 2 screws at the bottom.
Screw of the hole cover plate (at the backpanel) which covers the desired hole for the USB option set. Place the USB option so that the 6 pole angled connector on the USB PCB fits in the 6 pole angled connector on the input PCB. Screw the screw in the hole in the backpanel to mount the USB option kit. Close the mixing panel again by replacing the bottombox (6 screws), the aluminum fader cover plate (4 screws) and the fader knobs (6 pieces).
Connect the USB I/O set to a computer via a USB-cable. The computer will recognize the USB I/O set. Select the USB I/O set as playback- and recording device in the sound and audio configuration menu of the computer or audio-software.
The USB I/O set MX00 can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0070

2) **Digital optical input channel fader MX00 set**

Users can upgrade their mixing panel with digital faders on the music input channels. The digital faders replace the standard analogue faders. The option must be built in as follows: First pull off the fader knobs (9, 14, 15 & 19) at the frontpanel. Then unscrew the aluminum fader cover plate (4 screws). Take of this aluminum plate. Unscrew the channel fader, which you like to replace (2 screws). Pull off the 4 pole flat cable at the input PCB. Place the 10 pole flatcable (delivered together with the digital optical input channel fader set) on the 10 pole connector (right below the

PFL switch) on the input channel PCB. Connect the other side of the flatcable to the digital optical input channel fader. Screw the fader to the frontpanel (2 screws), attention, the 10 pole connector on the fader PCB must be placed at the side of the crossfader (14). Replace the aluminum fader cover plate and fader knobs. The digital optical input channel fader is ready to use.
The digital optical input channel fader MX00 set can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0072

3) **Digital optical crossfader MX00 set**

The standard analogue crossfader can be upgraded by a digital optical crossfader. The option must be built in as follows: First pull off the fader knobs (9, 14, 15 & 19) at the frontpanel. Then unscrew the aluminum fader cover plate (4 screws). Take of this aluminum plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom. Unscrew the crossfader (2 screws). Pull off the 4-pole flatcable of the crossfader on the output PCB. Place the 10 pole flatcable (delivered together with the digital optical crossfader set on the 10 pole connector on the output PCB. Connect the other side of the flatcable to the digital optical crossfader. Screw the digital optical crossfader to the frontpanel (2 screws), attention, the 10 pole connector on the fader PCB must be placed at the opposite side of the output PCB. Replace the bottombox (6 screws), the aluminum fader cover plate (4 screws) and fader knobs. The digital optical cross fader is ready to use.
The digital optical cross fader MX00 set can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0073

4) **Standard knobs set MX00 series**

The knobs of a MX00 series mixing panel can be ordered in a set. For a MX1400 you need 1 of these sets to replace all the knobs.
The standard knobs set MX00 series can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0074

5) **Fader knobs BX/CX/MX MKIII/MX00 series**

The fader knobs of a MX00 series mixing panel can be ordered in a set. For a MX1400 you need 1 of these sets to replace all the fader knobs.
The fader knobs BX/CX/MX MKIII/MX00 series can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0041

3.6.0. SPECIFICATIONS

0dBm = 0.775V RMS

Nominal analogue input levels:

- Line A asymmetrical (RCA): 500mV / 50kΩ
- Line B asymmetrical (RCA): 500mV / 50kΩ
- Phono asymmetrical (RCA gold plated): 5.2mV / 50kΩ
- Microphone (channel 1 – 4) symmetrical (XLR): 9.1mV / 3.6kΩ
- Microphone symmetrical (XLR or ¼" TRS JACK): 4.2mV / 1.8kΩ
- Effects return (1/4" TRS JACK): 775mV / 10kΩ
- Priority in (optional) (RCA): 500mV / 1.5kΩ

Nominal analogue output levels:

- Master 1 asymmetrical (RCA): 775mV / 10kΩ
- Master 1 symmetrical (XLR): 1.55V / 600Ω
- Monitor symmetrical (XLR): 1.55V / 600Ω
- Record asymmetrical (RCA): 500mV / 10kΩ
- Effects send asymmetrical (1/4" TRS JACK): 775mV / 10kΩ
- Headphones (1/4" TRS JACK):
  - 8Ω: (1kHz – 1%THD) 417mW (1.8V) / 1.1W music power
  - 32Ω: (1kHz – 1%THD) 1.0W (5.7V) / 1.7W music power
  - 600Ω: (1kHz – 1%THD) 520mW (17.7V) / 0.6W music power

Digital input:

Line B (RCA): S/P DIF IEC 958 type II 32kHz – 192kHz
USB (optional): 32kHz - 48kHz 16bit

Digital output:

Record (RCA): S/P DIF IEC 958 type II 44.1kHz
USB (optional): 11.025kHz - 48kHz 16bit

Signal headroom: 20.0dB @ 1kHz / THD < 0.05%

Crosstalk:

Left to right of an input channel: >60dB @ 1kHz
Channel to channel: >86dB @ 1kHz

Frequency response: +/- 0.25 dB from 20Hz to 20kHz
Subsonic filter: -25dB at 10Hz

Dynamic range: 103dB
Signal to noise ratio: 90dB
Total harmonic distortion: < 0.006%

Music equalizer: Low: +10dB / -21dB at 100Hz
Mid: +10dB / -21dB at 1kHz
High: +10dB / -21dB at 10kHz

Microphone equalizer: Low: +/- 12dB at 100Hz
Mid: +/- 12dB at 1kHz
High: +/- 12dB at 10kHz

Monitor output equalizer: Low: +12dB / -12dB at 100Hz
High: +12dB / -12dB at 10kHz

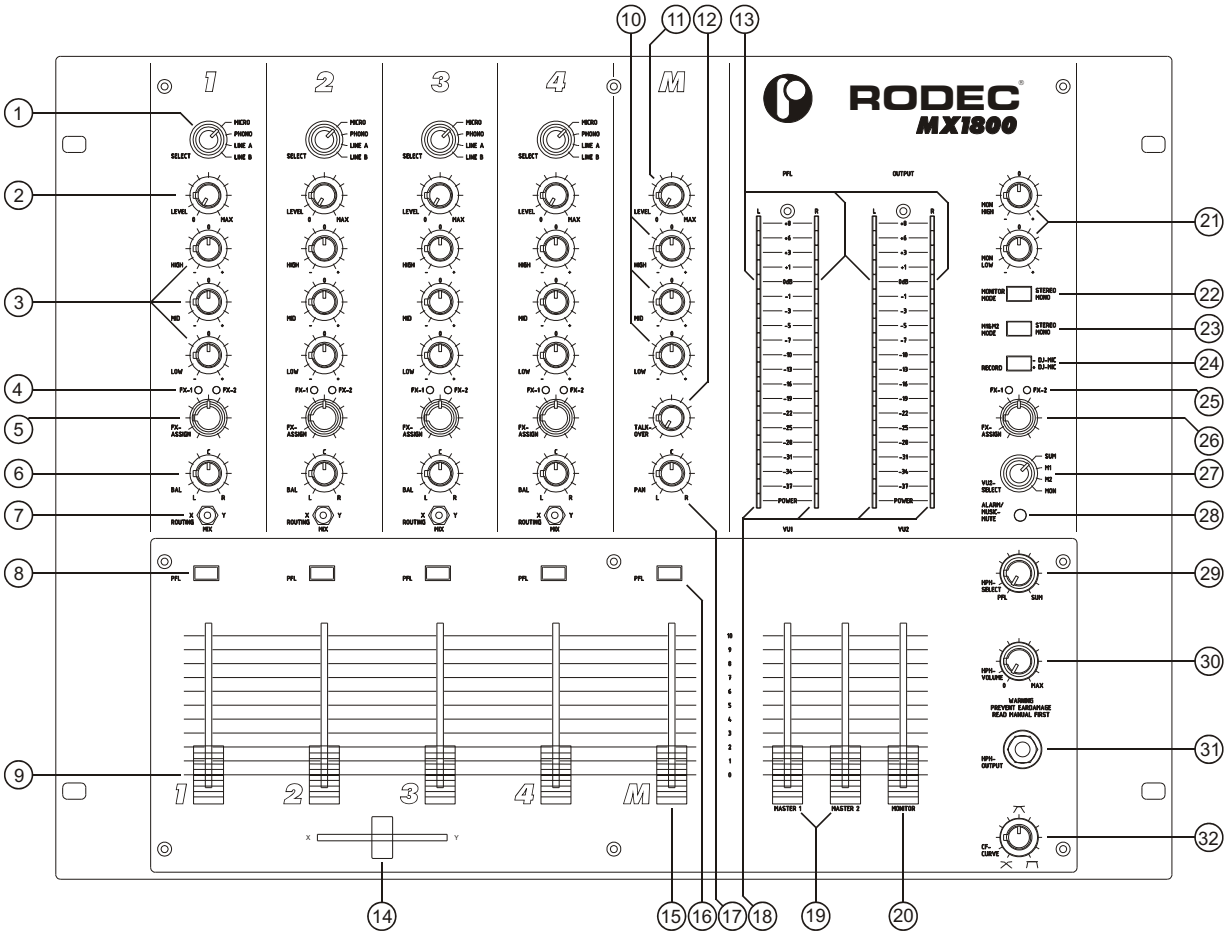
Power supply voltage: 90VAC – 264VAC
Power supply frequency: 47Hz – 63Hz
Power consumption: 38W (On), 60W (Full load), 6W (Stand by)
Operating temperature: 0°C (32°F) – 40°C (104°F)
Operating humidity: 5% - 90% (no condensation)

3.6.1. MECHANICAL SPECIFICATIONS

Frontpanel dimensions (W x D): 254.0mm (10.0”) x 355.0mm (14.0“) (8HE)
Bottombox dim. (W x D x H): 246.0mm (9.7“) x 343.0mm (13.5“) x 110.0mm (4.3“)
Panel cut out dimensions (W x D): 250.0mm (9.8“) x 347.0mm (13.7“)
Packed box dimensions (W x D x H): 335mm (13.2“) x 414mm (16.3“) x 207mm (8.1“)
Weight: 4.50kg (9.92lbs)
Packed weight: 5.46kg (12.04lbs)

4.0.0. OPERATING INSTRUCTIONS MX1800

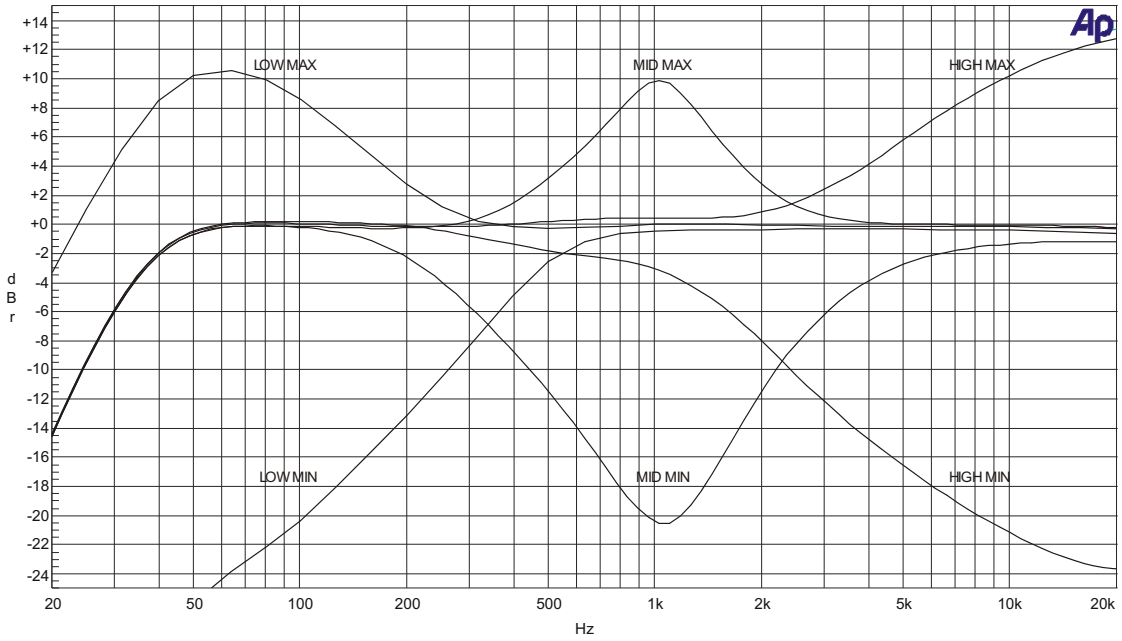
4.1.0. FRONTPANEL WITH CONTROLS



1) **Input select switch**
This selector is used to select the input signal: MICRO, PHONO, LINE A or LINE B.

2) **Input level potentiometer**
With this control the input level of each input channel can be set.

3) **Equalizer controls**
These controls regulate Treble, Middle and Bass levels.



4) **Input channel effects assign indication LED's**
These LED's indicate which channel is routed trough one of the effects outputs. If the FX-1 and FX-2 LED's do not light up, no channel is routed via the effects. If the FX-1 LED of a channel lights up green, that channel is routed via effects output 1. If the FX-1 LED of a channel lights up red, one of the other channels is routed via FX-1 and no other channel can be routed via FX-1 at that moment.
Same counts for the FX-2 LED that lights up. If the FX-1 LED is blinking red, the input channel effects assign potentiometer (5) must be turned back to its center position because it was initially placed in a fault position.

5) **Input channel effects assign potentiometer**
With this control, the input signal can be routed via effects output 1 or 2. When the knob is placed in the center (12 o'clock) position, the signal goes straight to the main mix without passing via one of the effects-outputs. When the knob is turned to the left, the signal will go via the effects 1 output. When the knob is turned to the right, the signal will go via the effects 2 output. The proportion between the dry (no effect) and wet (100% effect) can be set with the potentiometer.

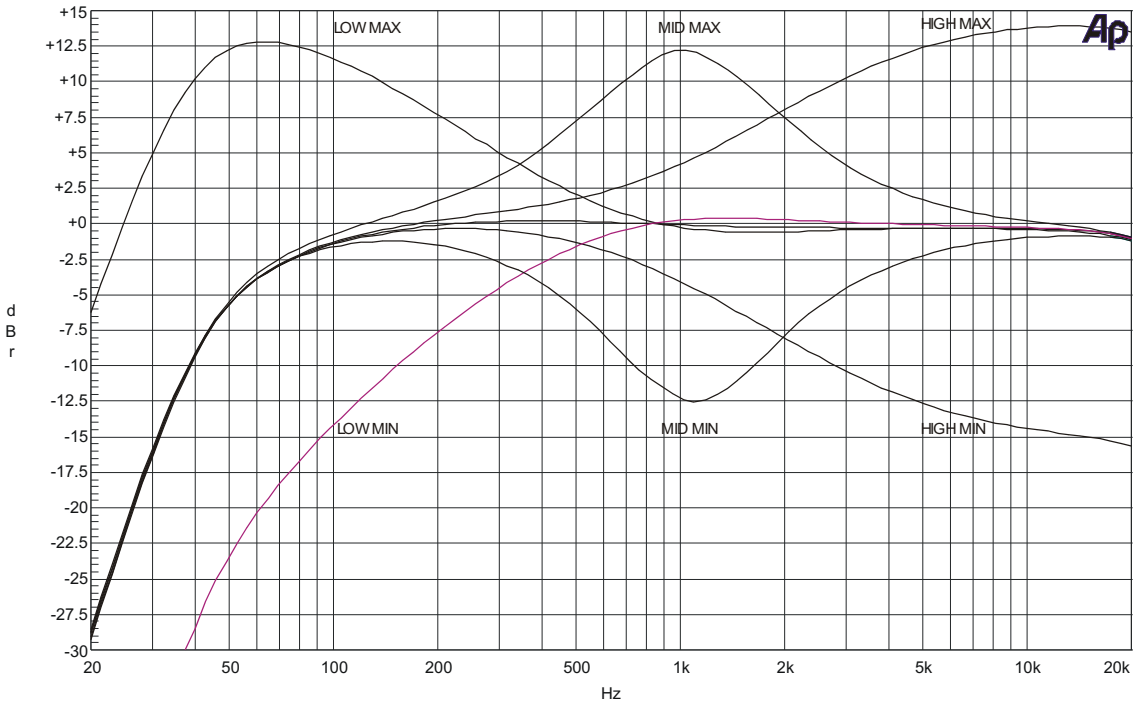
6) **Balance control**
The balance between Left and Right channel is adjusted by using this knob. When it is set to the center position, the gain is the same for both channels. When turned to the left, the right channel will decrease. When turned to the right, the left signal will decrease.

7) **Routing selector**
With this selector the signal can be lead: to the left side of the crossfader (X), directly to the output (MIX) or to the right side of the crossfader (Y).

8) **PFL switches**
With these switches you can select the different input sources for the headphones.

9) **Channel faders**
Volume control for every input channel.

10) **Equalizer**
Triple tone control for DJ microphone.



11) **DJ microphone input level potentiometer**
Control for accurate level-adjustment of different types of microphones.

12) **Talk-over control**
Control for the amount of music suppression controlled by the DJ microphone signal.

13) **VU meters**
The two left meters indicate the PFL signal. The right VU-meter displays the output signals, depending on the position of the VU-2 signal select switch (27).

14) **Crossfader**
With this fader you can easily fade over between the channels with routing-selector (7) on X-position and the channels with routing-selector (7) on Y-position. When the knob is turned completely to the left, the signal of the channels with routing selector (7) on X will appear on the output. When the knob is turned completely to the right, the signal of the channels with Routing selector (7) on Y will appear on the output. In between there will be a mix of both signals.

15) **DJ microphone fader**
Volume control for DJ microphone

16) **DJ microphone PFL switch**
With this switch the microphone signal can be made audible in the headphones and made visible on the left VU-meters.

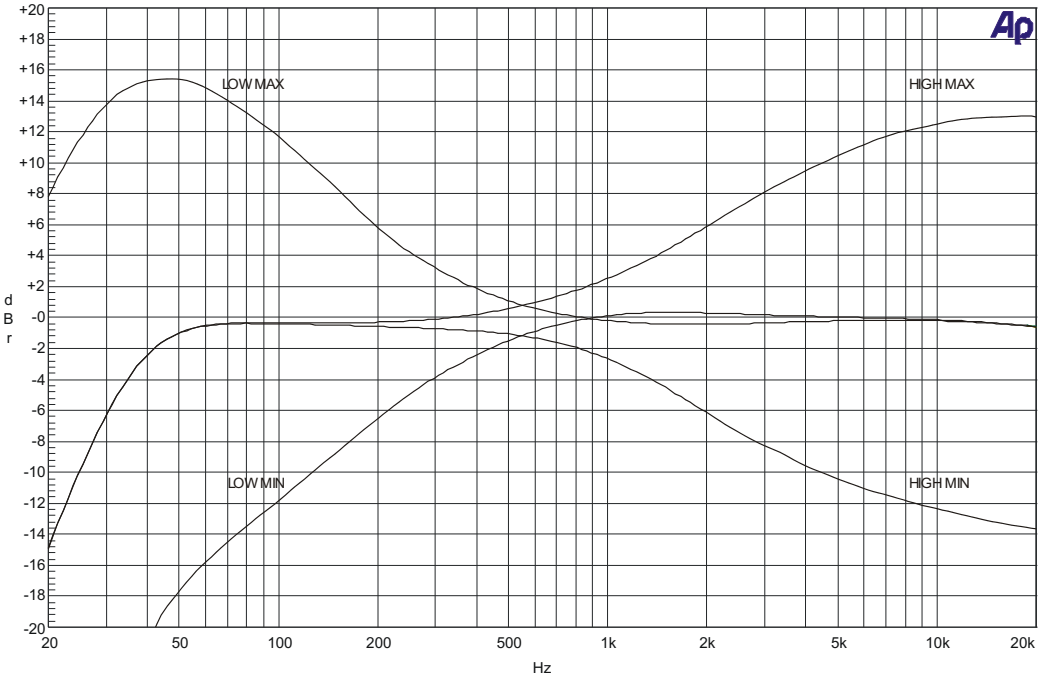
17) **Pan Mic**
Panoramic control for DJ microphone input. With this button you can position the microphone signal between the left and right loudspeaker.

18) **Power "ON" indicators**
These indicators light up when the power is on.

19) **Master 1 and master 2 output fader**
Volume controls final output of mixer towards slave or integrated amplifiers.

20) **Monitor output fader**
Volume control for the signal level for the monitor output, this output does not contain the DJ-mic signal to avoid feedback of the microphone-signal via the monitor loudspeakers.

21) **Monitor equalizer controls**
Bass and treble adjustment for the monitor output.



22) **Monitor mode Switch**
This switch is used to set the monitor output in mono or stereo mode.

23) **Master 1 and master 2 mode Switch**
This switch is used to set the master 1 and 2 outputs in mono or stereo mode.

24) **Record Select**
This switch is used to make recordings with or without the DJ microphone.
+ DJ MIC: in this position you add the DJ mic signal to the music.
- DJ MIC: in this position you only record the signal from channel 1 - 4.
This switch has no influence on the master outputs.

25) **Main mix effects assign indication LED's**
These LED's indicate if the main mix signal is routed through one of the effects outputs. If the FX-1 and FX-2 LED's do not light up, the main mix signal is not routed via the effects. If the FX-1 LED lights up green, the main mix signal is routed via effects output 1. If the FX-1 LED lights up red, an input channel's signal is routed via FX-1 output and no other channel can be routed via FX-1 at that moment.

Same counts for the FX-2 LED that lights up. If the FX-1 LED is blinking red, the main mix effects assign potentiometer (26) must be turned back to its center position because it was initially placed in a fault position.

26) **Main mix effects assign potentiometer**
With this control, the main mix signal can be routed through effects output 1 or 2. When the knob is placed in the center (12 o'clock) position, the signal goes straight to the main mix without passing through one of the effects-outputs. When the knob is turned to the left, the signal will go through the effects 1 output. When the knob is turned to the right, the signal will go through the effects 2 output. The proportion between the dry (no effect) and wet (100% effect) can be set with the potentiometer.

27) **VU-2 signal select switch**
With this switch is it possible to select the signal displayed on the two right VU-meters. When the switch is on the SUM position the mix-signal will be displayed. On the positions MASTER 1, MASTER 2 and MONITOR the according output signals will be displayed.

28) **Alarm/music mute indicator LED**
This LED indicates the amount of music suppression due to the control signal on the optional alarm/music mute input. When the LED doesn't light up, the music is not suppressed. When the LED lights up at full power, the music is fully suppressed.

29) **Headphones-select potentiometer**
With this potentiometer, the signal for the headphones output can be selected. When turned completely to the left, the signal selected with the channel PFL-switches (8) appears on the headphones. When turned completely to the right, the mix-signal appears on the headphones. In between it results in a mix of the PFL-signal and the mix-signal.

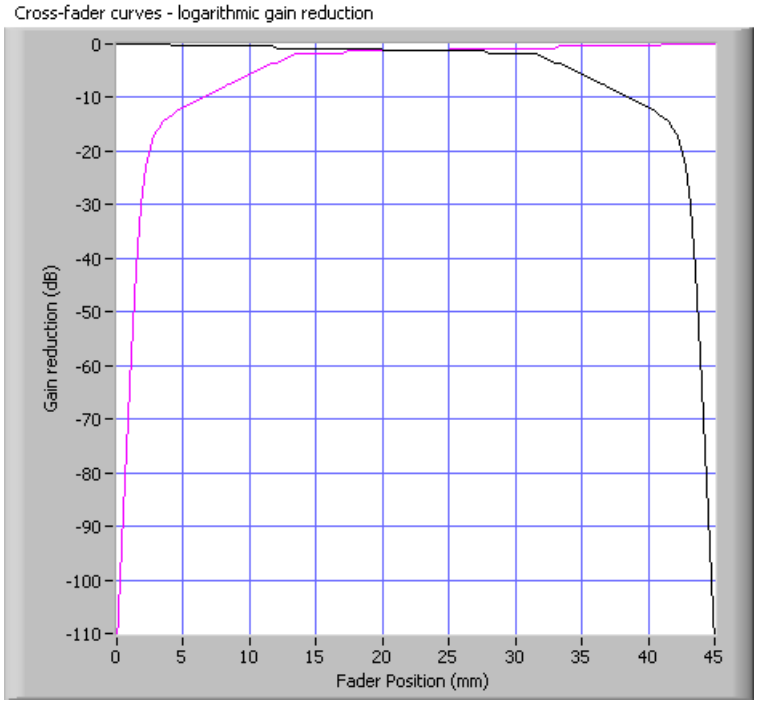
30) **Headphones volume control**
The volume of the headphones can be adjusted with this knob.

WARNING! The sound and intensity volume of the headphones amplifier can be very strong and, if not used properly, or if used in too close proximity, can cause permanent or temporary damage to one's hearing, perhaps even deafness.
Please use with caution and common sense!

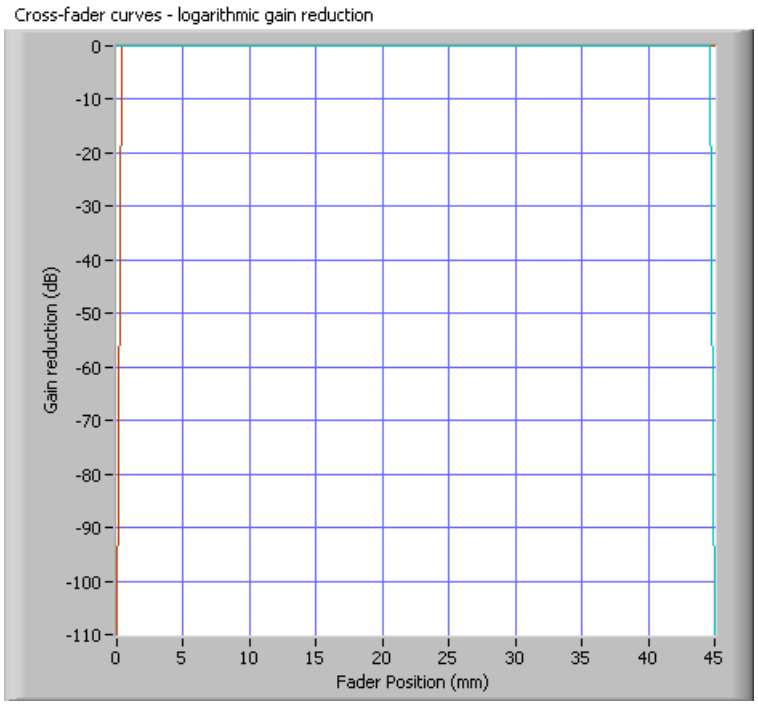
31) **Phones output**
Output for high level headphones monitoring. With the PFL switches (8 or 16) and the headphones-select potentiometer (29), the connected audio sources or the main-mix can be made audible without manipulating the output signal (Headphones 32-600□).

ATTENTION! Always turn headphones volume to "0" (fully counter clockwise) BEFORE putting the headphones on your or somebody else her/his ears! Then slowly raise the volume by turning the volume knob in clockwise direction.

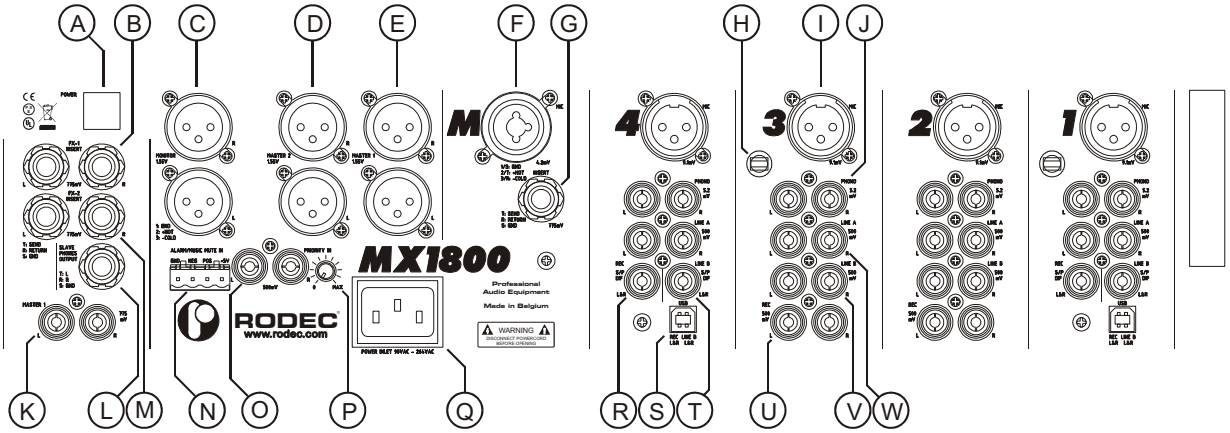
32) **Cross fader curve potentiometer**
This potentiometer is used to set the sharpness of the cross fader. When the potentiometer is turned completely to the left, the cross fader (14) will react as a normal cross fader. The volumes of the channels with routing-selector (7) on Y-position will rise from 0 to maximum when the shaft of the cross fader is moved from the left to the middle. The same counts for the volumes of the channels with routing-selector (7) on X-position, but then from the right side to the middle.



When the curve potentiometer is turned to the right, the cross fader will react very fast, with the volumes of the channels with routing-selector (7) on Y-position rising from 0 to maximum when the shaft of the cross fader is moved from the left to a few fractions from the left. The same counts for the volumes of the channels with routing-selector (7) on X-position, but then from the right side to a few fractions from the right side.



4.2.0. BACKPANEL WITH CONNECTORS



A) **Power switch**
Controls the supply of AC power to the set. A single push turns on the mixing panel, a second push turns it off.

Attention! By turning off this switch, the mixing panel is in stand-by mode. At that moment the mixing panel will still consume electricity from the mains net. The power cord has to be unplugged from the power inlet to shut down all power.

B) **Effects IN/OUT 1**
In- and output to connect effect equipment to the music signal. The signal that runs through this connector is controlled by the input channel effects assign potentiometer (5) or main mix effects assign potentiometer (26). Internally linked when JACK is not inserted. Sensitivity 775mV.

C) **Symmetrical monitor output**
Additional output up to 1.55V controlled by monitorfader (20). The DJ-microphone signal does not appear on this output.

D) **Symmetrical master output 2**
Symmetrical output to connect power-amplifier or loudspeaker-processor. The output level can be manipulated with master fader 2 (19) from 0 to maximum (1.55V).

E) **Symmetrical master output 1**
Symmetrical output to connect a power-amplifier or loudspeaker-processor. The output level can be manipulated with master fader 1 (19) from 0 to maximum (1.55V).

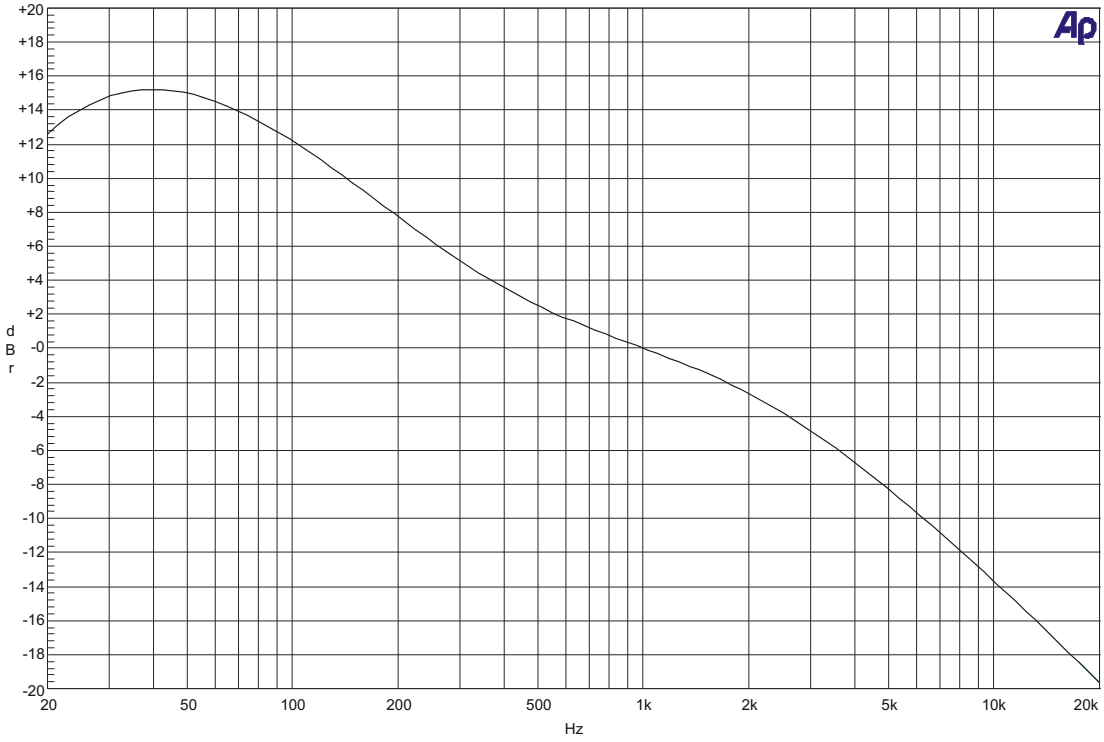
F) **DJ microphone input**
Balanced microphone input with a sensitivity of 4.2mV, with XLR-JACK combination connector.

G) **Effects IN/OUT**
Input and output to connect effect equipment to the microphone channel. If there is no plug in the JACK connector, the microphone channel works normally, if there is a plug inserted in the JACK, the internal link is interrupted. The sensitivity of this IN/OUT connection is 775mV.

H) **Ground-terminal**
Terminal to connect the ground wire of the vinyl turntable.

I) **Micro input**
Balanced microphone input. To obtain good signal quality, you have to use a microphone with balanced output. The use of a microphone without balanced output is also possible.

J) **PHONO input**
Phono input with a sensitivity of 5.2mV and built in RIAA correction.



K) **Asymmetrical master output 1**
Asymmetrical output to connect a power-amplifier. The output level can be manipulated with master fader 1 (19) from 0 to maximum (0.775V).

L) **Second headphones connector**
Signal identical as headphones-output on the frontpanel (31). The specifications are the same as the headphones output on the frontpanel.

M) **Effects IN/OUT 2**
In- and output to connect effect equipment to the music signal. The signal that will run through this connector is controlled by the input channel effects assign potentiometer (5) or main mix effects assign potentiometer (26). Internally linked when JACK is not inserted. Sensitivity 775mV.

N) **Alarm / music mute in connector**
Optional 4-pole connector to mute or turn off the music signal remote controlled. The DJ microphone signal will keep on working normally when the music is muted by the signal on this connector.

O) **Priority signal input**
Optional input to connect a signal coming from an evacuation-message player, alarm-signal generator, etc. This signal can be played at the moment when the other music signals are muted by the signal on the alarm / music mute connector.

P) **Priority signal input level potentiometer**
With this control the input level of the priority signal (O) can be set.

Q) **Power inlet**
Universal mains power inlet.

R) **Digital recording output**
Output to connect to a S/P DIF input of a MD-recorder, CD-recorder, HD-recorder or DAT-recorder to make recordings. This output can be switched with or without recording the DJ microphone signal (24). Both signals (left and right) go through one connector. (Only provided on channels 1 and 4)

S) **USB input/output**
Optional USB connector to play music from PC or HD-player and simultaneously record the main mix signal with a PC or HD-recorder. All 4 signals (reproduction left and right and recording left and right) go through one connector. (Only possible on channels 1 and 4)

T) **Digital line input B**
Digital S/P DIF input, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player or digital tuner. Both signals (left and right) go through one connector. (Only provided on channels 1 and 4)

U) **Analogue recording output**
Output to connect analogue recording device or (HIFI) video recorders to make recordings. This output can be switched with or without recording the DJ microphone signal (24). (Only provided on channels 2 and 3)

V) **Analogue line input B**
Analogue asymmetrical input with a sensitivity of 500mV, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player, analogue - or digital tuner, cassette player or video player. (Only provided on channels 2 and 3)

W) **Analogue line input A**
Analogue asymmetrical input with a sensitivity of 500mV, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player, analogue - or digital tuner, cassette player or video player.

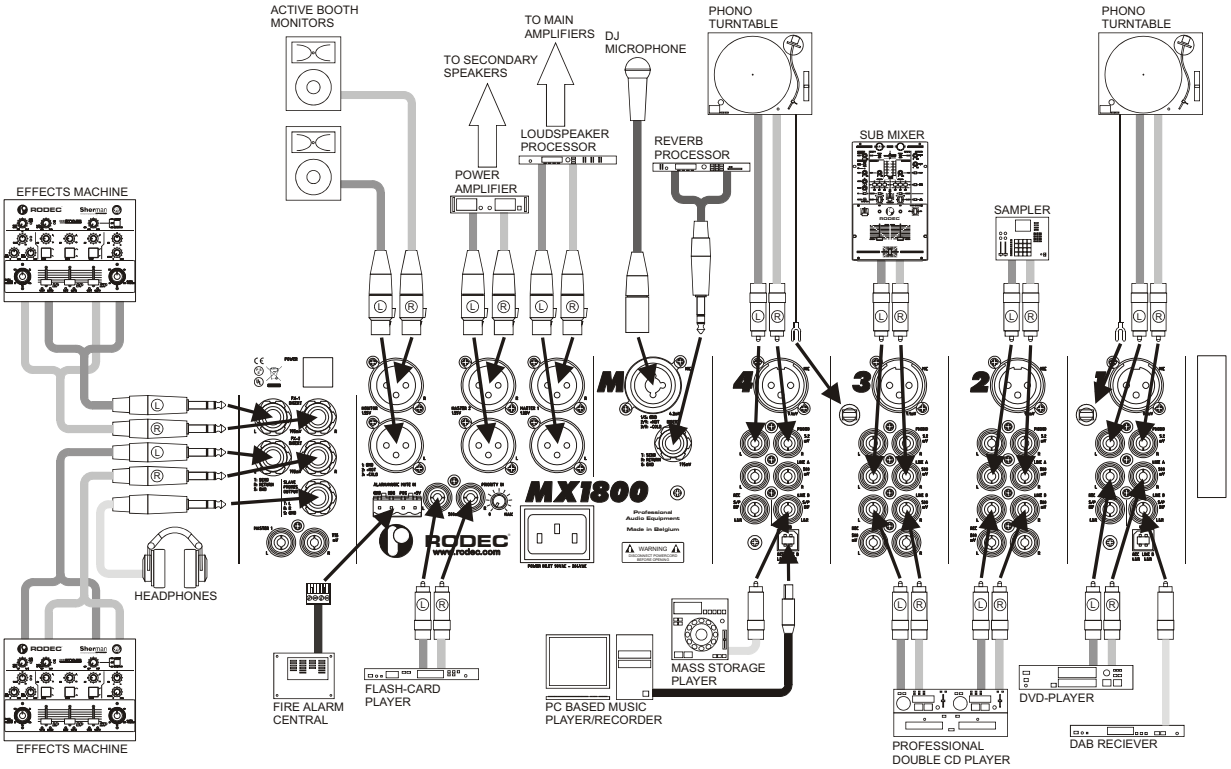
Please use signal cables shorter than 1 meter for the inputs and the outputs.

4.3.0. OPERATING INSTRUCTIONS

For correct operation of the mixing panel, please follow the instructions below.

1) Before connecting anything to the mixing panel, be sure all equipment is turned off. Then connect the different audio sources, amplifiers, effects-units, headphones, etc.. Next step is to turn on the audio sources and effects-units.
When all these units are in ready state, you can switch on the power switch (A) of the mixing panel. The power indicators (18) will light up.

After 5 seconds, you can turn on the loudspeaker processors and amplifiers.



2) Connect the headphones to the headphones JACK connector (31) or (L). Use headphones with impedance between 32 and 600Ω.

   ATTENTION! Always turn headphones volume to “0” (fully counter clockwise) **BEFORE** putting the headphones on your or somebody else her/his ears! Then slowly raise the volume by turning the volume knob in clockwise direction.

3) Choose with the input select switch (1) the right audio-source.

4) Switch the PFL button (8) in position ON to listen at the desired source. Turn the phones select button (29) completely to the left and turn the phones volume potentiometer (30) to the desired position to get the stereo signal on the headphones and the two left VU-meters. The PFL circuit works as a sum-system, there is a possibility to listen to more sources at the same time. All these operations have no influence on the output signal! Adjust with the level control (2) the input signal until the red indicators of the level meters (13) will light up occasionally. Adjust if necessary the quality of the sound with the equalizer (3).

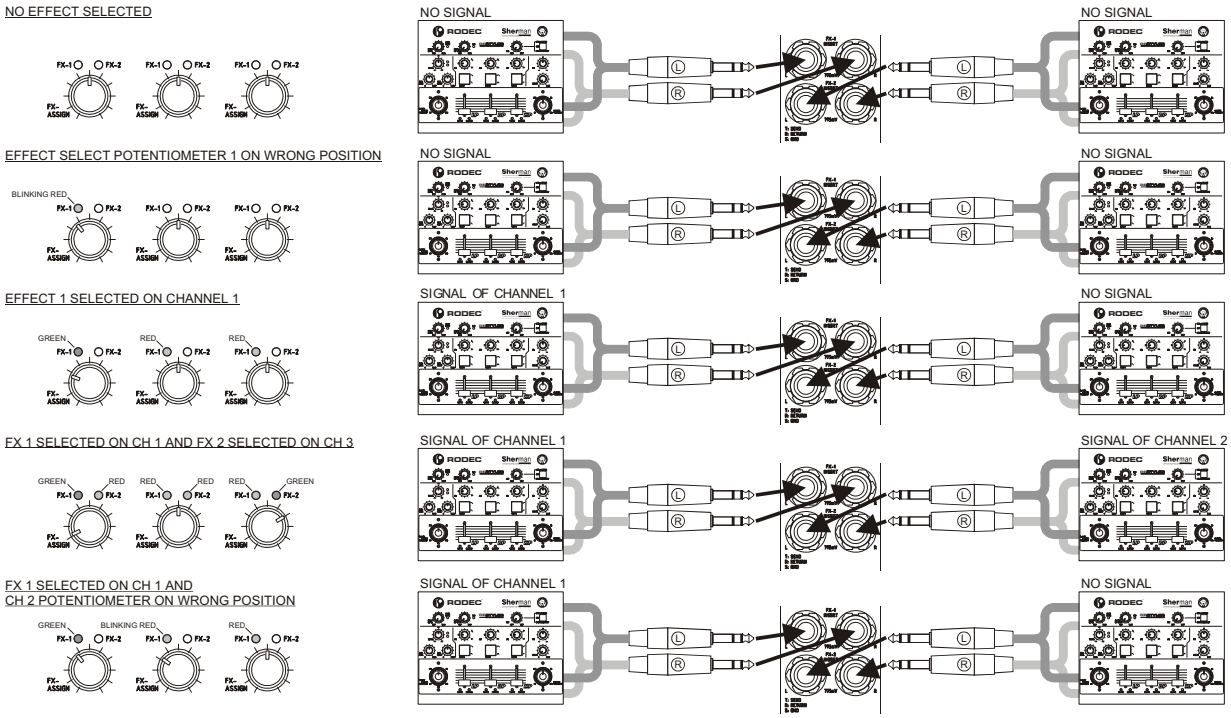
   LOOK OUT: The equalizer at each input is used to manipulate the sound of each of the input sources. To correct the acoustic of the room it is probably best to use an external equalizer.

5) To send the input signal through one of the effects outputs, first check if the desired effects bus is free. This can be done by checking the input channel effects assign indication LED’s (4). If the FX-1 LED does not light up, the FX-1 bus is free. If the FX-2 LED does not light up, the FX-2 bus is free. If one of the LED’s is blinking red, the input channel effects assign potentiometer (5) is in

a wrong position. Then first turn the input channel effects assign potentiometer to its 12 o' clock position, so the LED will stop blinking. To select the FX-1 bus, turn the input channel effects assign potentiometer to the left, first, no effect will be audible, but the influence of the effect will increase when the potentiometer is turned further to the left. When the potentiometer is completely to the left, 100% of the signal will be influenced by the effect.
The same procedure can be followed to select FX-2, but then the potentiometer has to be turned to the right.

When the FX-1 bus is selected, the according LED will light up green, same for the FX-2 bus.

On the other input channels and on the main mix, the according LED will light up red, to indicate the according effects-bus is occupied.



6) Open up the fader (9) of the chosen input channel

7) Slide up one or both master faders (19) till desired volume is reached. Also open the monitor fader (20), to hear the music at the DJ-booth.

8) The music in the DJ-booth can be manipulated with the monitor equalizer (21).

9) Correct if necessary the balance with button (6), for monophonic sound on master 1 and 2 set switch (23) in mono position. For monophonic sound on monitor output, set switch (22) in mono position.

10) If you like to use the crossfader (14), you can route the channel to the left (X) side of the crossfader by putting the routing switch (7) on CF-X position. Or to the right (Y) side of the crossfader when you put the routing switch (7) on the CF-Y position. The response curve of the cross fader (14) can be adjusted with the cross fader curve potentiometer (32).

11) To change the source, repeat point 3) to 6).

12) By turning the headphones select potentiometer (29) more clockwise, you will increase the amount of the main mix signal in the headphones.

13) To add a microphone signal, connect the microphone to the MIC input (F). Turn the level control (11) and the talk-over (12) to zero, slide up the MIC fader (15) to maximum and adjust with the level button (11) the volume of the microphone. Adjust with the equalizer (10) the sound of the microphone. To use the talk over, adjust the talk over button (12) (0= no decrease, 10= total decrease). With the pan MIC (17), the DJ microphone signal can be placed somewhere between left and right. Eventually you can connect an external processor (example: compressor or reverb) to the effects insert (G) of the microphone channel.

14) The mixed signal can be recorded, simply by connecting a recorder to the analogue (U) or digital (R) record-connectors. Depending on the position of the record-select switch (24) you can decide if the microphone signal is also recorded or not. The mixed signal can also be recorded with a computer through the optional USB connector (S).

15) The main mix signal can also be lead to one of the effects insert outputs. This can be done in the same way as leading the signal of an input channel to the effects insert outputs, follow the instructions of point 5). The effects assign indication LED's for the main mix are LED's (25). The effects assignation for the main mix can be done with the main mix effects assign potentiometer (26).

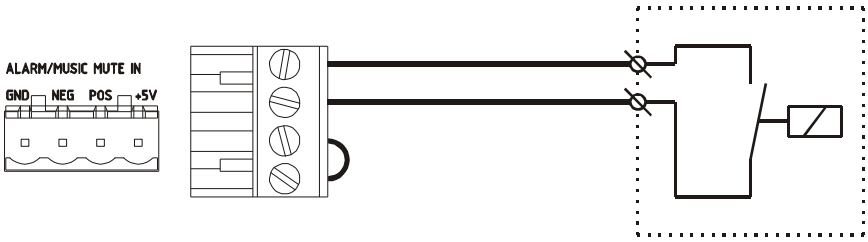
16) On the right VU-meters the signal appears selected with the VU2-signal select switch (27). If you like to compare via the headphones and the left VU-meters the pre-fade signal with the output signal, you can do this by putting the rotative switch (27) on the SUM-position. By this the PFL-signal appears on the two left VU-meters and the output-signal on the other two VU-meters.

17) If you have an optional Alarm/Music mute priority unit at your disposal, you can mute the music remote controlled. The alarm/music mute connector has 4 connections (GND, NEG, POS, +5V).

The music volume can be controlled following 4 basic principles:

<u>Switch-contact:</u>

Switching of the music remote controlled through a switch-contact in an alarm-central or some other system.

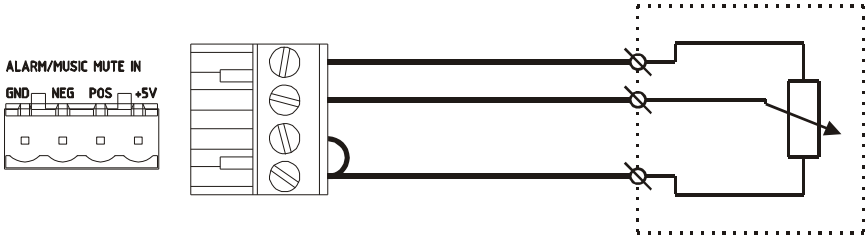


Connect the switching contact between the connection “POS” and “+5V”. Place a small wire between the connections “GND” and “NEG”. When the switch-contact is open, the music will play normally, when the switch-contact is closed, the music will be muted.

Also the alarm/music mute indicator LED (28) at the frontpanel will light up to indicate the music is muted remote controlled.

Potentiometer:

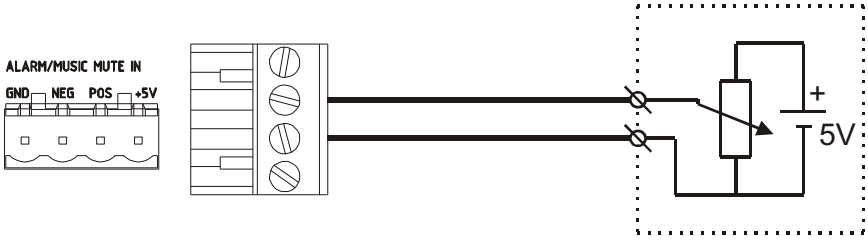
Controlling the volume remote controlled with a potentiometer.



Use a potentiometer with total resistance between 1kilo-ohms and 100kilo-ohms. Connect the potentiometer between connections “GND” and “+5V”, connect the wiper to the connection “POS” (please follow the schematic diagram above). Place also a small wire between the connections “GND” and “NEG”. When the wiper of the potentiometer is turned completely to the “+5V” side (fully counter clockwise), the music will be completely muted, when the wiper is turned to the “GND” side (fully clockwise), the music will play normally. The alarm/music mute indicator LED (28) at the frontpanel will indicate the amount of music-surpression. When the music is totally muted the LED will light up completely. When the music is not muted the LED is turned off.

Variable 5V voltage source:

Controlling the volume with a 0V to 5V voltage source remote controlled.

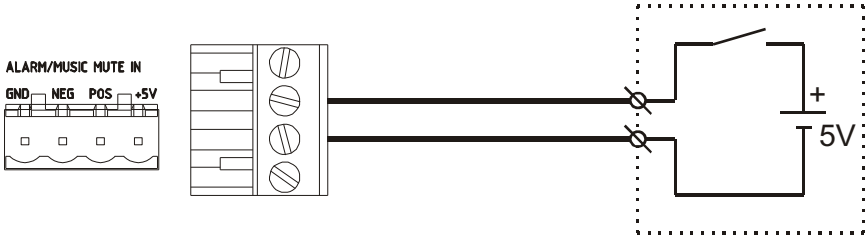


Connect the 0Volts to 5Volts variable voltage source to connections “NEG” and “POS”. Connect the positive wire to the connection “POS” (please follow the schematic diagram above). When the voltage source is 0V, the music will play normally. When the voltage source it’s output voltage rises to 5V, the music will be muted. The alarm/music mute indicator LED (28) at the frontpanel

will indicate the amount of music-surpression. When the music is totally muted the LED will light up completely. When the music is not muted the LED is turned off.

0V - 5V output:

Switching on/off the music with a 0Volts or 5Volts switching output.



Connect the positive contact of the 0Volts / 5Volts output to the connection ”POS” and the other contact to the connection “NEG”. When the 0V/5V output sends out 0V, the music will play normally, when there is 5V at this output, the music is muted. The alarm/music mute indicator LED (28) at the frontpanel will light up to indicate the music is muted remote controlled.

18) When the music is muted through the alarm/music mute input (N), an alarm message, alarm signal or evacuation message can be played via the priority input (O). Simply connect the alarm message-, alarm signal- or evacuation message player to the priority input RCA connector. For a correct operation, the level must be set in advance. This can be done as follows: turn all other music sources off, put the VU-2 signal select switch (27) on position SUM, start the alarm-message, alarm-signal or evacuation-message, turn up the level with the priority signal input level potentiometer (P) until the green 0dB LED’s on the VU-meter (13) lights up sometimes. At that moment the level is set correctly. Later when an alarm has to be given, the alarm system can mute the music through the alarm/music mute input and the message player can be started to play the message.

4.4.0. SUBSONIC FILTER

The two master outputs and the monitor output have a subsonic filter to protect the bass loudspeakers from DC and subsonic signals. This filter cannot be switched off. The filter gives a reduction of 25dB at 10Hz.

4.5.0. OPTIONS

1) USB I/O set MX00

Optional input/output kit to connect the mixing panel with a computer. The USB connector contains 1 stereo input signal and 1 stereo record output signal. With this option music can be played from a computer via USB. Simultaneous the mixed music can be recorded via the computer. The option must be built in as follows: First pull off the fader knobs (9, 14, 15, 19 & 20) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom.

Screw of the hole cover plate (at the backpanel) which covers the desired hole for the USB option set. Place the USB option so that the 6 pole angled connector on the USB PCB fits in the 6 pole angled connector on the input PCB. Screw the screw in the hole in the backpanel to mount the USB option kit. Close the mixing panel again by replacing the bottombox (8 screws), the aluminum fader cover plate (6 screws) and the fader knobs (9 pieces).

Connect the USB I/O set to a computer via a USB-cable. The computer will recognize the USB I/O set. Select the USB I/O set as playback- and recording device in the sound and audio configuration menu of the computer or audio-software.
The USB I/O set MX00 can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0070

2) Alarm/Music mute/Priority in set MX00

With this optional set, the music can be muted or decreased in volume remote controlled. This can be used to connect a fire-alarm system to the mixing panel so that the music mutes automatically when a fire-alarm signal appears. Through the priority input an automatically starting alarm message can be reproduced.
Another application of this set is controlling the output volume of the mixing panel remote controlled. In this way another person than the DJ can decide at every moment how loud the music is played in the venue.
The option must be built in as follows: First pull off the fader knobs (9, 14, 15, 19 & 20) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom.
Screw of the hole cover plate (at the backpanel), which covers the holes for the Alarm/Music mute/Priority in set. First connect the 6 pole connector of the optional alarm/music mute/priority in set to the 6 pole connector on the output PCB (68 001 0050). Screw the alarm/music mute/priority set to the backpanel with the screw (delivered together with the set). Close the mixing panel again by replacing the bottombox (8 screws), the aluminum fader cover plate (6 screws) and the fader knobs (9 pieces). Now the alarm/music mute/priority in set is ready to use.
The alarm/music mute/priority in set MX00 can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0071

3) Digital optical input channel fader MX00 set

Users can upgrade their mixing panel with digital faders on the music input channels. The digital faders replace the standard analogue faders. The option must be built in as follows: First pull off the fader knobs (9, 14, 15, 19 & 20) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Unscrew the channel fader, which you like to replace (2 screws). Pull off the 4 pole flat cable at the input PCB. Place the 10 pole flatcable (delivered together with the digital optical input channel fader set) on the 10 pole connector (right below the PFL switch) on the input channel PCB. Connect the other side of the flatcable to the digital optical input channel fader. Screw the fader to the frontpanel (2 screws), attention, the 10 pole connector on the fader PCB must be placed at the side of the crossfader (14). Replace the aluminum fader cover plate and fader knobs. The digital optical input channel fader is ready to use.
The digital optical input channel fader MX00 set can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0072

4) Digital optical crossfader MX00 set

The standard analogue crossfader can be upgraded by a digital optical crossfader. The option must be built in as follows: First pull off the fader knobs (9, 14, 15, 19 & 20) at the frontpanel.

Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom. Unscrew the crossfader (2 screws). Pull off the 4 pole flatcable of the crossfader on the output PCB. Place the 10 pole flatcable (delivered together with the digital optical crossfader set on the 10 pole connector on the output PCB. Connect the other side of the flatcable to the digital optical crossfader. Screw the digital optical crossfader to the frontpanel (2 screws), attention, the 10 pole connector on the fader PCB must be placed at the opposite side of the output PCB. Replace the bottombox (8 screws), the aluminum fader cover plate (6 screws) and fader knobs. The digital optical cross fader is ready to use.
The digital optical cross fader MX00 set can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0073

5) Standard knobs set MX00 series

The knobs of a MX00 series mixing panel can be ordered in a set. For a MX1800 you need 1 of these sets to replace all the knobs.
The standard knobs set MX00 series can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0074

6) Fader knobs BX/CX/MX MKIII/MX00 series

The fader knobs of a MX00 series mixing panel can be ordered in a set. For a MX1800 you need 1 of these sets to replace all the fader knobs.
The fader knobs BX/CX/MX MKIII/MX00 series can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0041

4.6.0. SPECIFICATIONS

0dBm = 0.775V RMS

Nominal analogue input levels:
- Line A asymmetrical (RCA): 500mV / 50kΩ
- Line B asymmetrical (RCA): 500mV / 50kΩ
- Phono asymmetrical (RCA gold plated): 5.2mV / 50kΩ
- Microphone (channel 1 – 4) symmetrical (XLR): 9.1mV / 3.6kΩ
- Microphone symmetrical (XLR or ¼" TRS JACK): 4.2mV / 1.8kΩ
- Effects return (1/4" TRS JACK): 775mV / 10kΩ
- Priority in (optional) (RCA): 500mV / 1.5kΩ

Nominal analogue output levels:
- Master 1 asymmetrical (RCA): 775mV / 10kΩ
- Master 1 symmetrical (XLR): 1.55V / 600Ω
- Master 2 symmetrical (XLR): 1.55V / 600Ω
- Monitor symmetrical (XLR): 1.55V / 600Ω
- Record asymmetrical (RCA): 500mV / 10kΩ
- Effects send asymmetrical (1/4" TRS JACK): 775mV / 10kΩ
- Headphones (1/4" TRS JACK):
  - 8Ω: (1kHz – 1%THD) 417mW (1.8V) / 1.1W music power
  - 32Ω: (1kHz – 1%THD) 1.0W (5.7V) / 1.7W music power
  - 600Ω: (1kHz – 1%THD) 520mW (17.7V) / 0.6W music power

Digital input:
- Line B (RCA): S/P DIF IEC 958 type II 32kHz – 192kHz
- USB (optional): 32kHz - 48kHz 16bit

Digital output:
- Record (RCA): S/P DIF IEC 958 type II 44.1kHz
- USB (optional): 11.025kHz - 48kHz 16bit

Signal headroom: 20.0dB @ 1kHz / THD < 0.05%

Crosstalk:
- Left to right of an input channel: >60dB @ 1kHz
- Channel to channel: >86dB @ 1kHz

Frequency response: +/- 0.25 dB from 20Hz to 20kHz
Subsonic filter: -25dB at 10Hz

Dynamic range: 103dB
Signal to noise ratio: 90dB
Total harmonic distortion: < 0.006%

Music equalizer:
- Low: +10dB / -21dB at 100Hz
- Mid: +10dB / -21dB at 1kHz
- High: +10dB / -21dB at 10kHz

Microphone equalizer:
- Low: +12dB / -12dB at 100Hz
- Mid: +12dB / -12dB at 1kHz
- High: +12dB / -12dB at 10kHz

Monitor output equalizer: Low: +12dB / -12dB at 100Hz
High: +12dB / -12dB at 10kHz

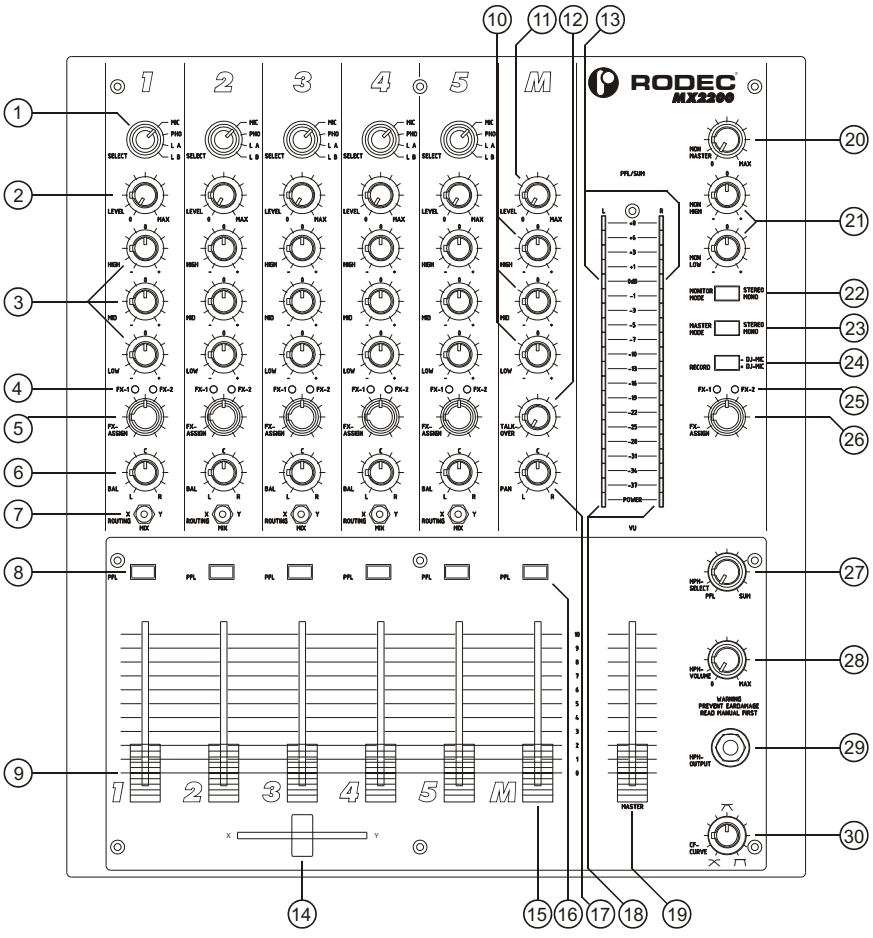
Power supply voltage: 90VAC – 264VAC
Power supply frequency: 47Hz – 63Hz
Power consumption: 42W (On), 69W (Full load), 6W (Stand by)
Operating temperature: 0°C (32°F) – 40°C (104°F)
Operating humidity: 5% - 90% (no condensation)

4.6.1. MECHANICAL SPECIFICATIONS

Frontpanel dimensions (W x D): 482.0mm (19.0”) x 355.0mm (14.0“) (8HE)
Bottombox dim. (W x D x H): 442.0mm (17.4“) x 343.0mm (13.5“) x 110.0mm (4.3“)
Panel cut out dimensions (W x D): 446.0mm (17.6“) x 347.0mm (13.7“)
Packed box dimensions (W x D x H): 523mm (20.6“) x 414mm (16.3“) x 207mm (8.1“)
Weight: 6.62kg (14.59lbs)
Packed weight: 7.88kg (17.37lbs)

5.0.0. OPERATING INSTRUCTIONS MX2200

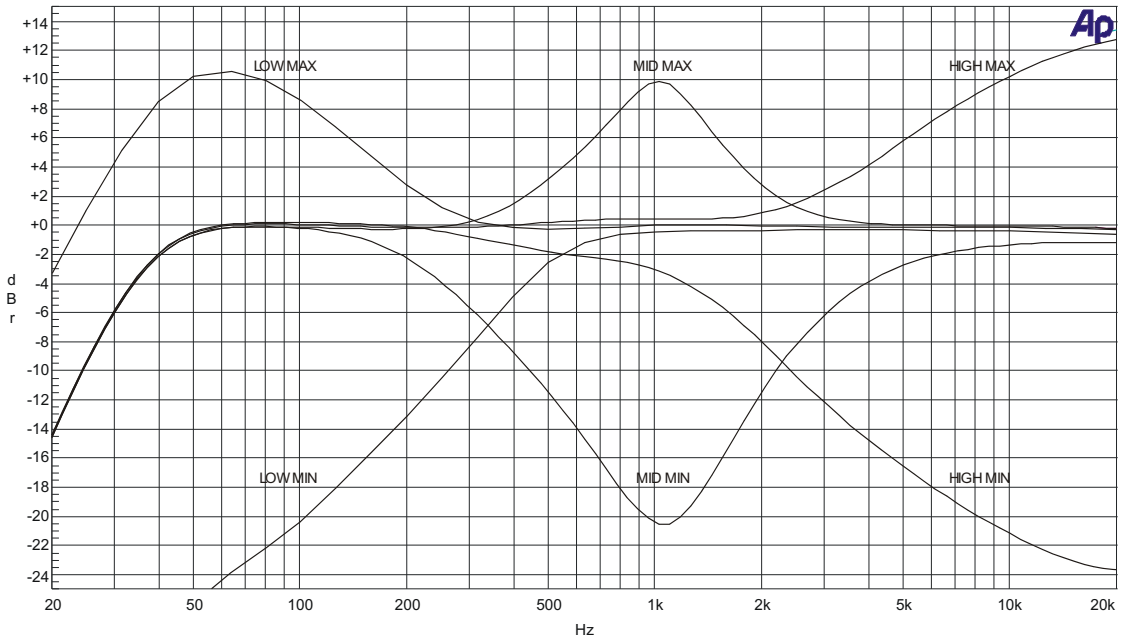
5.1.0. FRONTPANEL WITH CONTROLS



1) **Input select switch**
This selector is used to select the input signal: MICRO, PHONO, LINE A or LINE B.

2) **Input level potentiometer**
With this control the input level of each input channel can be set.

3) **Equalizer controls**
These controls regulate Treble, Middle and Bass levels.



4) **Input channel effects assign indication LED's**
These LED's indicate which channel is routed trough one of the effects outputs. If the FX-1 and FX-2 LED's do not light up, no channel is routed via the effects. If the FX-1 LED of a channel lights up green, that channel is routed via effects output 1. If the FX-1 LED of a channel lights up red, one of the other channels is routed via FX-1 and no other channel can be routed via FX-1 at that moment.
Same counts for the FX-2 LED that lights up. If the FX-1 LED is blinking red, the input channel effects assign potentiometer (5) must be turned back to its center position because it was initially placed in a fault position.

5) **Input channel effects assign potentiometer**
With this control, the input signal can be routed via effects output 1 or 2. When the knob is placed in the center (12 o'clock) position, the signal goes straight to the main mix without passing via one of the effects-outputs. When the knob is turned to the left, the signal will go via the effects 1 output. When the knob is turned to the right, the signal will go via the effects 2 output. The proportion between the dry (no effect) and wet (100% effect) can be set with the potentiometer.

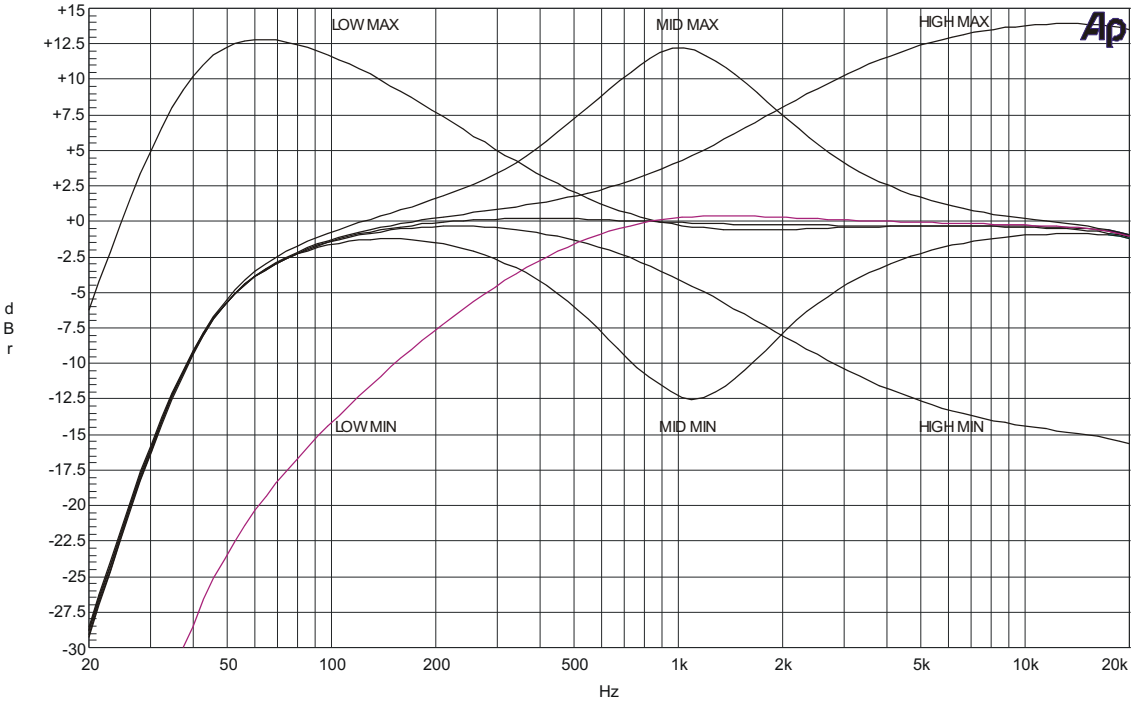
6) **Balance control**
The balance between Left and Right channel is adjusted by using this knob. When it is set to the center position, the gain is the same for both channels. When turned to the left, the right channel will decrease. When turned to the right, the left signal will decrease.

7) **Routing selector**
With this selector the signal can be lead: to the left side of the crossfader (X), directly to the output (MIX) or to the right side of the crossfader (Y).

8) **PFL switches**
With these switches you can select the different input sources for the headphones.

9) **Channel faders**
Volume control for every input channel.

10) **Equalizer**
Triple tone control for DJ microphone.



11) **DJ microphone input level potentiometer**
Control for accurate level-adjustment of different types of microphones.

12) **Talk-over control**
Control for the amount of music suppression controlled by the DJ microphone signal.

13) **VU meters**
The two meters indicate the PFL signal. When no PFL-switch (8) is pressed, the VU-meter displays the mixed signal.

14) **Crossfader**
With this fader you can easily fade over between the channels with routing-selector (7) on X-position and the channels with routing-selector (7) on Y-position. When the knob is turned completely to the left, the signal of the channels with routing selector (7) on X will appear on the output. When the knob is turned completely to the right, the signal of the channels with Routing selector (7) on Y will appear on the output. In between there will be a mix of both signals.

15) **DJ microphone fader**
Volume control for DJ microphone

16) **DJ microphone PFL switch**
With this switch the microphone signal can be made audible in the headphones and made visible on the left VU-meters.

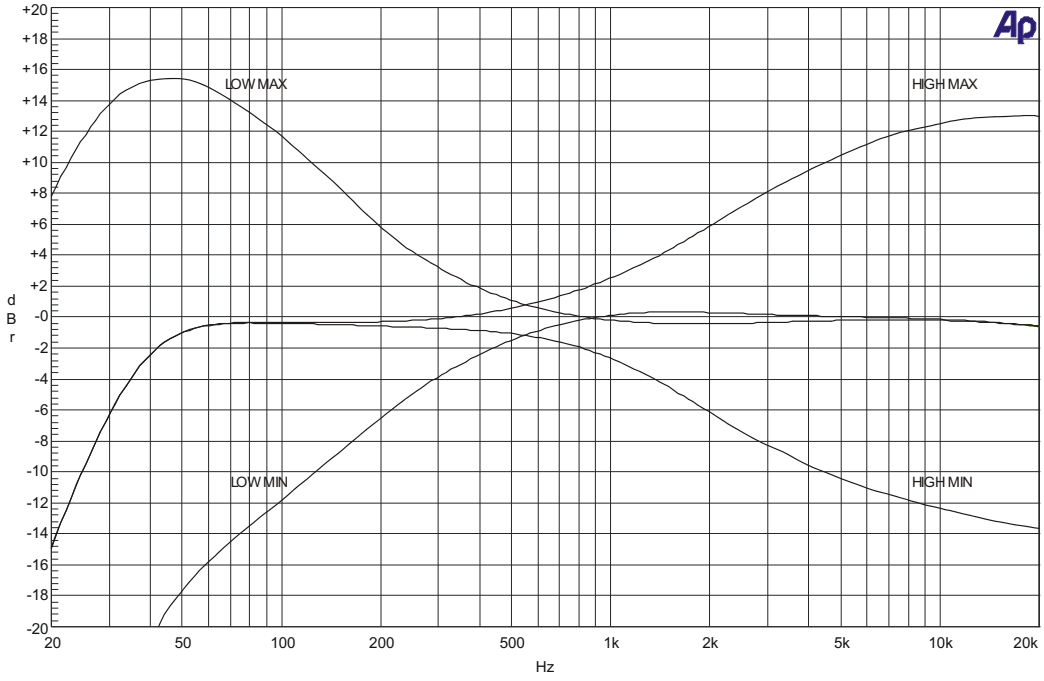
17) **Pan Mic**
Panoramic control for DJ microphone input. With this button you can position the microphone signal between the left and right loudspeaker.

18) **Power "ON" indicators**
These indicators light up when the power is on.

19) **Master fader**
Volume controls final output of mixer towards slave or integrated amplifiers.

20) **Monitor output potentiometer**
Volume control for the signal level for the monitor output, this output does not contain the DJ-mic signal to avoid feedback of the microphone-signal via the monitor loudspeakers.

21) **Monitor equalizer controls**
Bass and treble adjustment for the monitor output.



22) **Monitor mode Switch**
This switch is used to set the monitor output in mono or stereo mode.

23) **Master 1 mode Switch**
This switch is used to set the master 1 output in mono or stereo mode.

24) **Record Select**
This switch is used to make recordings with or without the DJ microphone.
+ DJ MIC: in this position you add the DJ mic signal to the music.
- DJ MIC: in this position you only record the signal from channel 1 - 4.
This switch has no influence on the master outputs.

25) **Main mix effects assign indication LED's**
These LED's indicate if the main mix signal is routed through one of the effects outputs. If the FX-1 and FX-2 LED's do not light up, the main mix signal is not routed via the effects. If the FX-1 LED lights up green, the main mix signal is routed via effects output 1. If the FX-1 LED lights up red, an input channel's signal is routed via FX-1 output and no other channel can be routed via FX-1 at that moment.
Same counts for the FX-2 LED that lights up. If the FX-1 LED is blinking red, the main mix effects assign potentiometer (26) must be turned back to its center position because it was initially placed in a fault position.

26) **Main mix effects assign potentiometer**
With this control, the main mix signal can be routed through effects output 1 or 2. When the knob is placed in the center (12 o'clock) position, the signal goes straight to the main mix without passing through one of the effects-outputs. When the knob is turned to the left, the signal will go through the effects 1 output. When the knob is turned to the right, the signal will go through the effects 2 output. The proportion between the dry (no effect) and wet (100% effect) can be set with the potentiometer.

27) **Headphones-select potentiometer**
With this potentiometer, the signal for the headphones output can be selected. When turned completely to the left, the signal selected with the channel PFL-switches (8) appears on the headphones. When turned completely to the right, the mix-signal appears on the headphones. In between it results in a mix of the PFL-signal and the mix-signal.

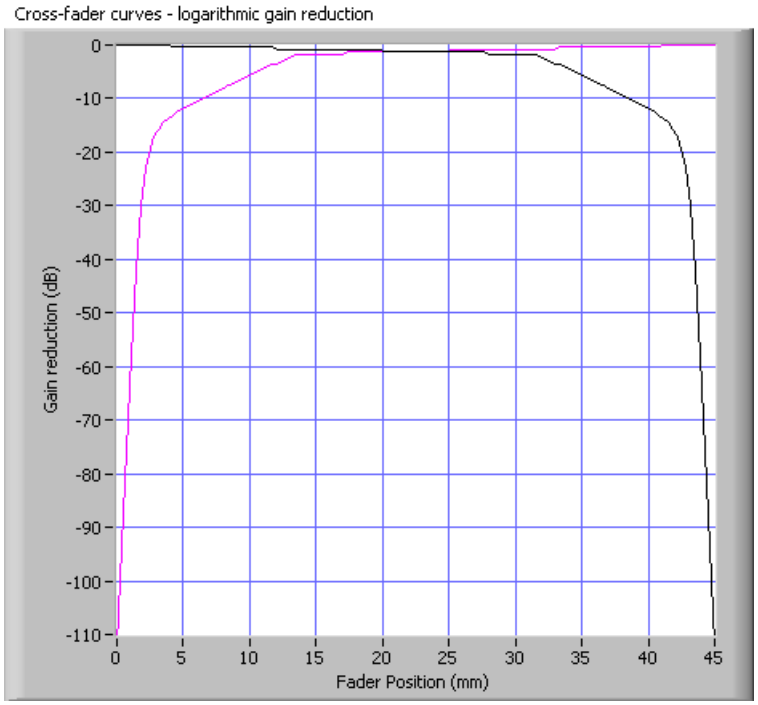
28) **Headphones volume control**
The volume of the headphones can be adjusted with this knob.

WARNING!	The sound and intensity volume of the headphones amplifier can be very strong and, if not used properly, or if used in too close proximity, can cause permanent or temporary damage to one's hearing, perhaps even deafness. Please use with caution and common sense!

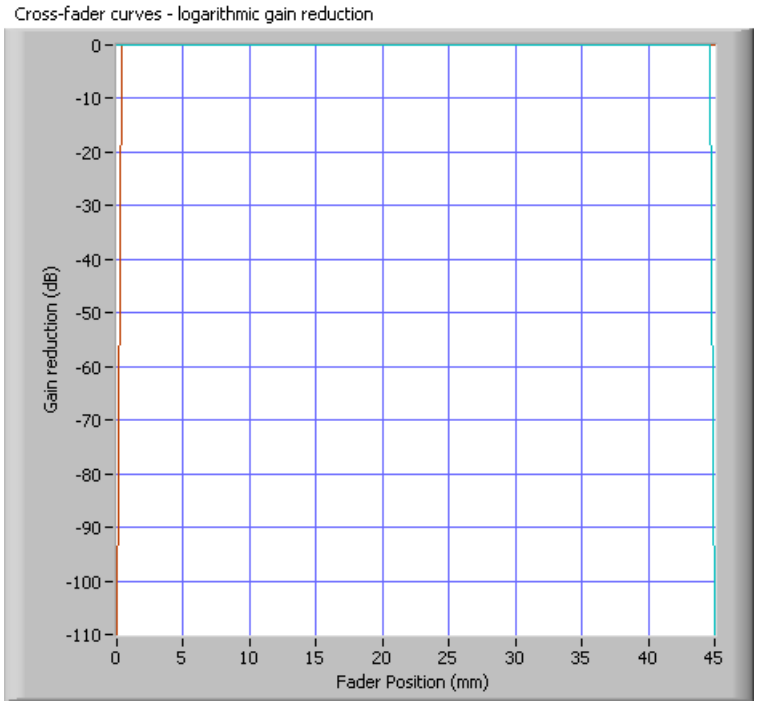
29) **Phones output**
Output for high level headphones monitoring. With the PFL switches (8) and the headphones-select potentiometer (27), the connected audio sources or the main-mix can be made audible without manipulating the output signal (Headphones 32-600□).

ATTENTION! Always turn headphones volume to "0" (fully counter clockwise) **BEFORE** putting the headphones on your or somebody else her/his ears! Then slowly raise the volume by turning the volume knob in clockwise direction.

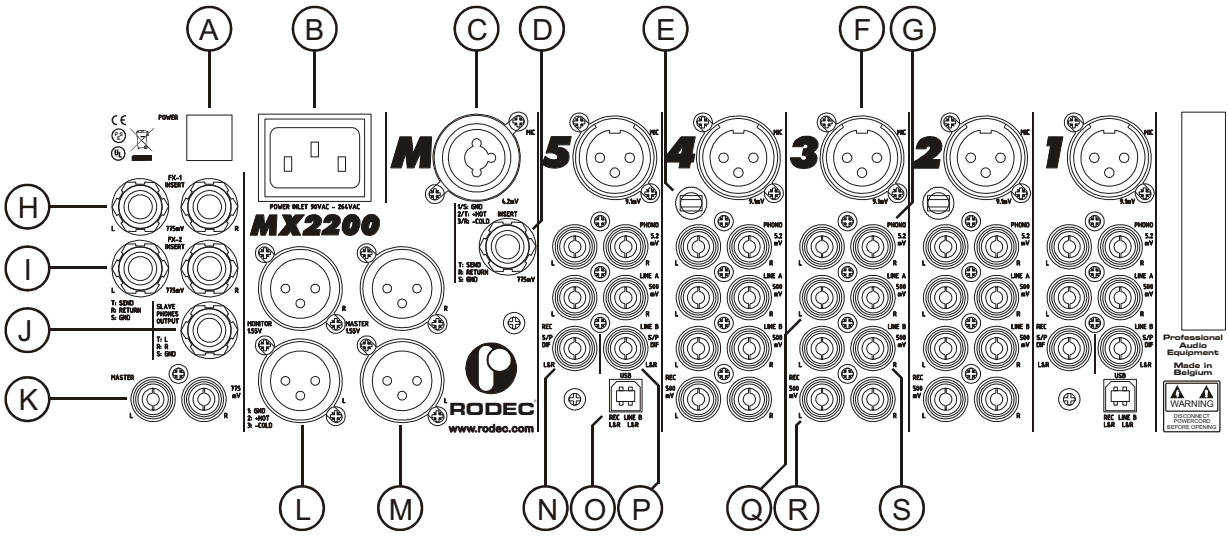
30) **Cross fader curve potentiometer**
This potentiometer is used to set the sharpness of the cross fader. When the potentiometer is turned completely to the left, the cross fader (14) will react as a normal cross fader. The volumes of the channels with routing-selector (7) on Y-position will rise from 0 to maximum when the shaft of the cross fader is moved from the left to the middle. The same counts for the volumes of the channels with routing-selector (7) on X-position, but then from the right side to the middle.



When the curve potentiometer is turned to the right, the cross fader will react very fast, with the volumes of the channels with routing-selector (7) on Y-position rising from 0 to maximum when the shaft of the cross fader is moved from the left to a few fractions from the left. The same counts for the volumes of the channels with routing-selector (7) on X-position, but then from the right side to a few fractions from the right side.



5.2.0. BACKPANEL WITH CONNECTORS



A) **Power switch**
Controls the supply of AC power to the set. A single push turns on the mixing panel, a second push turns it off.

Attention! By turning off this switch, the mixing panel is in stand-by mode. At that moment the mixing panel will still consume electricity from the mains net. The power cord has to be unplugged from the power inlet to shut down all power.

B) **Power inlet**
Universal mains power inlet.

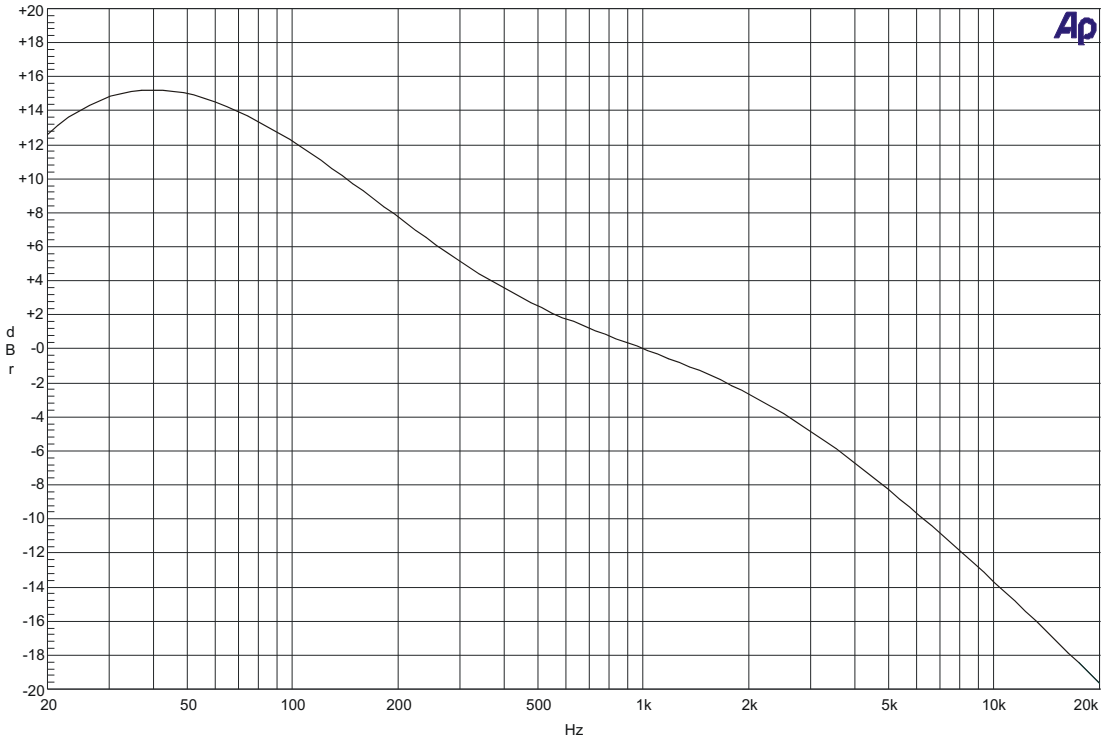
C) **DJ microphone input**
Balanced microphone input with a sensitivity of 4.2mV, with XLR-JACK combination connector.

D) **Effects IN/OUT**
Input and output to connect effect equipment to the microphone channel. If there is no plug in the JACK connector, the microphone channel works normally, if there is a plug inserted in the JACK, the internal link is interrupted. The sensitivity of this IN/OUT connection is 775mV.

E) **Ground-terminal**
Terminal to connect the ground wire of the vinyl turntable.

F) **Micro input**
Balanced microphone input. To obtain good signal quality, you have to use a microphone with balanced output. The use of a microphone without balanced output is also possible.

G) **PHONO input**
Phono input with a sensitivity of 5.2mV and built in RIAA correction.



H) **Effects IN/OUT 1**
In- and output to connect effect equipment to the music signal. The signal that runs through this connector is controlled by the input channel effects assign potentiometer (5) or main mix effects assign potentiometer (26). Internally linked when JACK is not inserted. Sensitivity 775mV.

I) **Effects IN/OUT 2**
In- and output to connect effect equipment to the music signal. The signal that will run through this connector is controlled by the input channel effects assign potentiometer (5) or main mix effects assign potentiometer (26). Internally linked when JACK is not inserted. Sensitivity 775mV.

J) **Second headphones connector**
Signal identical as headphones-output on the frontpanel (29). The specifications are the same as the headphones output on the frontpanel.

K) **Asymmetrical master output**
Asymmetrical output to connect a power-amplifier. The output level can be manipulated with master fader (19) from 0 to maximum (0.775V).

L) **Symmetrical monitor output**
Additional output up to 1.55V controlled by monitorpotentiometer (20). The DJ-microphone signal does not appear on this output.

M) **Symmetrical master output**
Symmetrical output to connect a power-amplifier or loudspeaker-processor. The output level can be manipulated with master fader (19) from 0 to maximum (1.55V).

N) **Digital recording output**
Output to connect to a S/P DIF input of a MD-recorder, CD-recorder, HD-recorder or DAT-recorder to make recordings. This output can be switched with or without recording the DJ

microphone signal (24). Both signals (left and right) go through one connector. (Only provided on channels 1 and 5)

O) **USB input/output**
Optional USB connector to play music from PC or HD-player and simultaneously record the main mix signal with a PC or HD-recorder. All 4 signals (reproduction left and right and recording left and right) go through one connector. (Only possible on channels 1 and 5)

P) **Digital line input B**
Digital S/P DIF input, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player or digital tuner. Both signals (left and right) go through one connector. (Only provided on channels 1 and 5)

Q) **Analogue line input A**
Analogue asymmetrical input with a sensitivity of 500mV, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player, analogue - or digital tuner, cassette player or video player.

R) **Analogue recording output**
Output to connect analogue recording device or (HIFI) video recorders to make recordings. This output can be switched with or without recording the DJ microphone signal (24). (Only provided on channels 2, 3 and 4)

S) **Analogue line input B**
Analogue asymmetrical input with a sensitivity of 500mV, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player, analogue - or digital tuner, cassette player or video player. (Only provided on channels 2, 3 and 4)

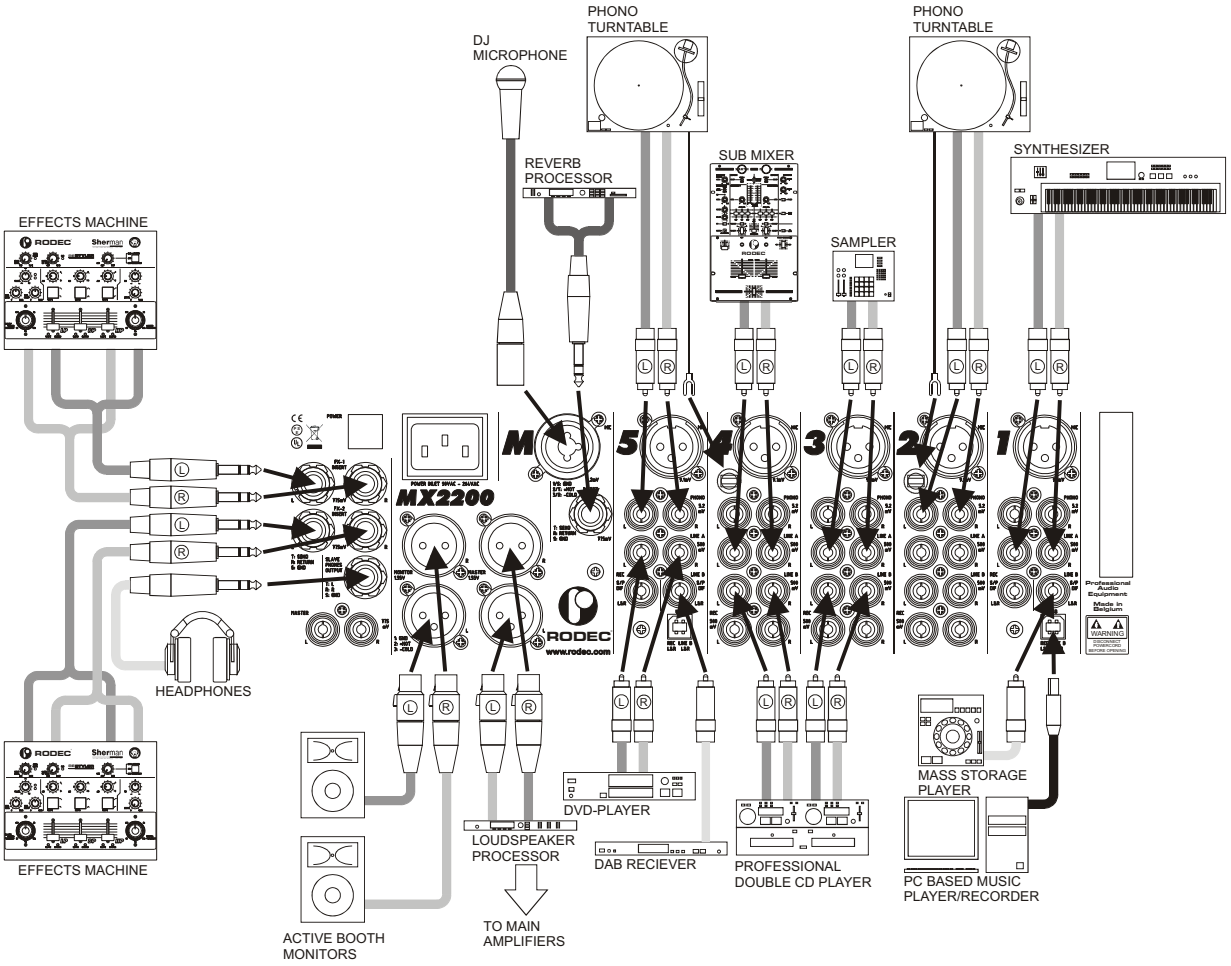
Please use signal cables shorter than 1 meter for the inputs and the outputs.

5.3.0. OPERATING INSTRUCTIONS

For correct operation of the mixing panel, please follow the instructions below.

1) Before connecting anything to the mixing panel, be sure all equipment is turned off. Then connect the different audio sources, amplifiers, effects-units, headphones, etc.. Next step is to turn on the audio sources and effects-units.
When all these units are in ready state, you can switch on the power switch (A) of the mixing panel. The power indicators (18) will light up.

After 5 seconds, you can turn on the loudspeaker processors and amplifiers.



2) Connect the headphones to the headphones JACK connector (29) or (J). Use headphones with impedance between 32 and 600Ω.

   ATTENTION! Always turn headphones volume to "0" (fully counter clockwise) **BEFORE** putting the headphones on your or somebody else her/his ears! Then slowly raise the volume by turning the volume knob in clockwise direction.

3) Choose with the input select switch (1) the right audio-source.

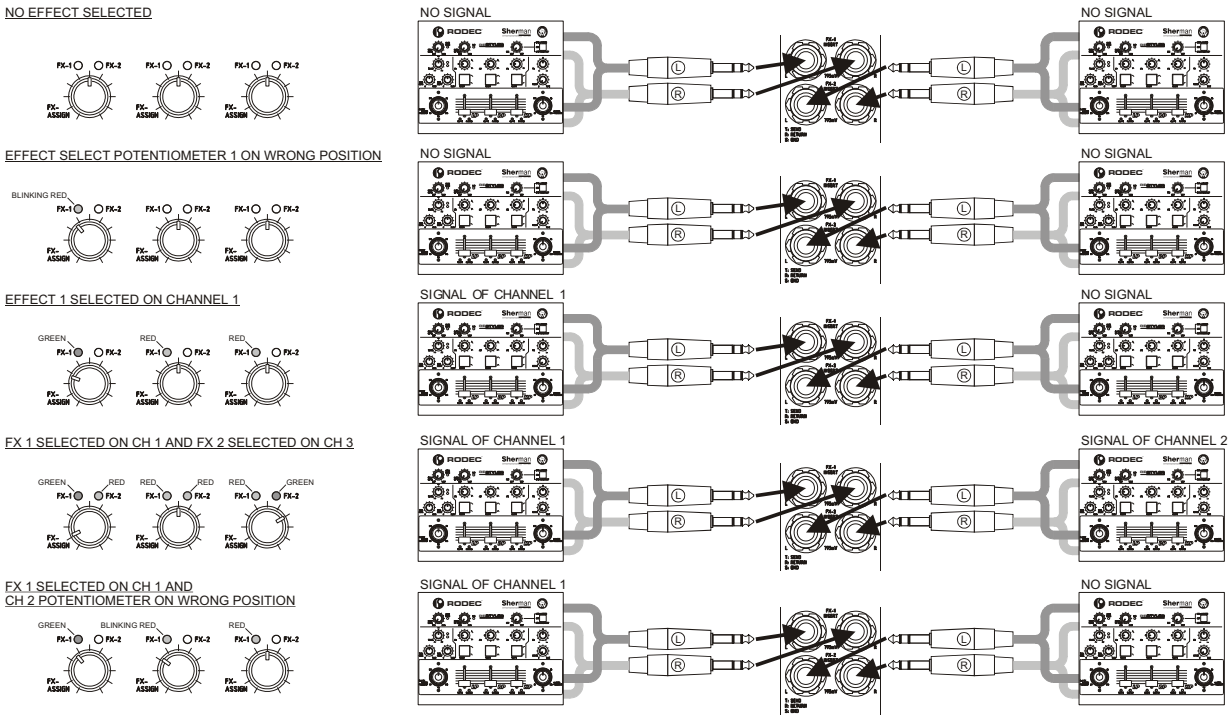
4) Switch the PFL button (8) in position ON to listen at the desired source. Turn the phones select button (27) completely to the left and turn the phones volume potentiometer (28) to the desired position to get the stereo signal on the headphones and the two left VU-meters. The PFL circuit works as a sum-system, there is a possibility to listen to more sources at the same time. All these operations have no influence on the output signal! Adjust with the level control (2) the input signal until the red indicators of the level meters (13) will light up occasionally. Adjust if necessary the quality of the sound with the equalizer (3).

   LOOK OUT: The equalizer at each input is used to manipulate the sound of each of the input sources. To correct the acoustic of the room it is probably best to use an external equalizer.

5) To send the input signal through one of the effects outputs, first check if the desired effects bus is free. This can be done by checking the input channel effects assign indication LED's (4). If the FX-1 LED does not light up, the FX-1 bus is free. If the FX-2 LED does not light up, the FX-2 bus is free. If one of the LED's is blinking red, the input channel effects assign potentiometer (5) is in a wrong position. Then first turn the input channel effects assign potentiometer to its 12 o' clock position, so the LED will stop blinking. To select the FX-1 bus, turn the input channel effects assign potentiometer to the left, first, no effect will be audible, but the influence of the effect will increase when the potentiometer is turned further to the left. When the potentiometer is completely to the left, 100% of the signal will be influenced by the effect.
The same procedure can be followed to select FX-2, but then the potentiometer has to be turned to the right.

When the FX-1 bus is selected, the according LED will light up green, same for the FX-2 bus.

On the other input channels and on the main mix, the according LED will light up red, to indicate the according effects-bus is occupied.



6) Open up the fader (9) of the chosen input channel

7) Slide up master fader (19) till desired volume is reached. Also open the monitor potentiometer (20), to hear the music at the DJ-booth.

8) The music in the DJ-booth can be manipulated with the monitor equalizer (21).

9) Correct if necessary the balance with button (6), for monophonic sound on master output set switch (23) in mono position. For monophonic sound on monitor output, set switch (22) in mono position.

10) If you like to use the crossfader (14), you can route the channel to the left (X) side of the crossfader by putting the routing switch (7) on CF-X position. Or to the right (Y) side of the crossfader when you put the routing switch (7) on the CF-Y position. The response curve of the cross fader (14) can be adjusted with the cross fader curve potentiometer (30).

11) To change the source, repeat point 3) to 6).

12) By turning the headphones select potentiometer (27) more clockwise, you will increase the amount of the main mix signal in the headphones.

13) To add a microphone signal, connect the microphone to the MIC input (C). Turn the level control (11) and the talk-over (12) to zero, slide up the MIC fader (15) to maximum and adjust with the level button (11) the volume of the microphone. Adjust with the equalizer (10) the sound of the microphone. To use the talk over, adjust the talk over button (12) (0= no decrease, 10= total decrease). With the pan MIC (17), the DJ microphone signal can be placed somewhere between left and right. Eventually you can connect an external processor (example: compressor or reverb) to the effects insert (D) of the microphone channel.

14) The mixed signal can be recorded, simply by connecting a recorder to the analogue (R) or digital (N) record-connectors. Depending on the position of the record-select switch (24) you can decide if the microphone signal is also recorded or not. The mixed signal can also be recorded with a computer through the optional USB connector (O).

15) The main mix signal can also be lead to one of the effects insert outputs. This can be done in the same way as leading the signal of an input channel to the effects insert outputs, follow the instructions of point 5). The effects assign indication LED's for the main mix are LED's (25). The effects assignation for the main mix can be done with the main mix effects assign potentiometer (26).

16) When no PFL is selected with the PFL switches on the input channels (7), the mixed signal will appear on the VU-meters. If you like to compare via the VU-meters the pre-fade signal with the output signal, you can do this by switching all PFL switches off first. Then switch the PFL switch of the input channel you wish to compare with the mixed signal, on an off. In that way, both signal levels can be compared.

5.4.0. SUBSONIC FILTER

The two master outputs and the monitor output have a subsonic filter to protect the bass loudspeakers from DC and subsonic signals. This filter cannot be switched off. The filter gives a reduction of 25dB at 10Hz.

5.5.0. OPTIONS

1) **USB I/O set MX00**
Optional input/output kit to connect the mixing panel with a computer. The USB connector contains 1 stereo input signal and 1 stereo record output signal. With this option music can be played from a computer via USB. Simultaneous the mixed music can be recorded via the computer. The option must be built in as follows: First pull off the fader knobs (9, 14, 15 & 19) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum

plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom.

Screw of the hole cover plate (at the backpanel) which covers the desired hole for the USB option set. Place the USB option so that the 6 pole angled connector on the USB PCB fits in the 6 pole angled connector on the input PCB. Screw the screw in the hole in the backpanel to mount the USB option kit. Close the mixing panel again by replacing the bottombox (8 screws), the aluminum fader cover plate (6 screws) and the fader knobs (8 pieces).

Connect the USB I/O set to a computer via a USB-cable. The computer will recognize the USB I/O set. Select the USB I/O set as playback- and recording device in the sound and audio configuration menu of the computer or audio-software.

The USB I/O set MX00 can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0070

2) **Digital optical input channel fader MX00 set**
Users can upgrade their mixing panel with digital faders on the music input channels. The digital faders replace the standard analogue faders. The option must be built in as follows: First pull off the fader knobs (9, 14, 15 & 19) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Unscrew the channel fader, which you like to replace (2 screws). Pull off the 4 pole flat cable at the input PCB. Place the 10 pole flatcable (delivered together with the digital optical input channel fader set) on the 10 pole connector (right below the PFL switch) on the input channel PCB. Connect the other side of the flatcable to the digital optical input channel fader. Screw the fader to the frontpanel (2 screws), attention, the 10 pole connector on the fader PCB must be placed at the side of the crossfader (14). Replace the aluminum fader cover plate and fader knobs. The digital optical input channel fader is ready to use.

The digital optical input channel fader MX00 set can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0072

3) **Digital optical crossfader MX00 set**
The standard analogue crossfader can be upgraded by a digital optical crossfader. The option must be built in as follows: First pull off the fader knobs (9, 14, 15 & 19) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom. Unscrew the crossfader (2 screws). Pull off the 4-pole flatcable of the crossfader on the output PCB. Place the 10 pole flatcable (delivered together with the digital optical crossfader set on the 10 pole connector on the output PCB. Connect the other side of the flatcable to the digital optical crossfader. Screw the digital optical crossfader to the frontpanel (2 screws), attention, the 10 pole connector on the fader PCB must be placed at the opposite side of the output PCB. Replace the bottombox (8 screws), the aluminum fader cover plate (6 screws) and fader knobs. The digital optical cross fader is ready to use.

The digital optical cross fader MX00 set can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0073

4) **Standard knobs set MX00 series**
The knobs of a MX00 series mixing panel can be ordered in a set. For a MX2200 you need 1 of these sets to replace all the knobs.

The standard knobs set MX00 series can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0074

5) **Fader knobs BX/CX/MX MKIII/MX00 series**
The fader knobs of a MX00 series mixing panel can be ordered in a set. For a MX2200 you need 1 of these sets to replace all the fader knobs.

The fader knobs BX/CX/MX MKIII/MX00 series can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0041

5.6.0. SPECIFICATIONS

0dBm = 0.775V RMS

Nominal analogue input levels:

- Line A asymmetrical (RCA): 500mV / 50kΩ
- Line B asymmetrical (RCA): 500mV / 50kΩ
- Phono asymmetrical (RCA gold plated): 5.2mV / 50kΩ
- Microphone (channel 1 – 4) symmetrical (XLR): 9.1mV / 3.6kΩ
- Microphone symmetrical (XLR or ¼" TRS JACK): 4.2mV / 1.8kΩ
- Effects return (1/4" TRS JACK): 775mV / 10kΩ
- Priority in (optional) (RCA): 500mV / 1.5kΩ

Nominal analogue output levels:

- Master 1 asymmetrical (RCA): 775mV / 10kΩ
- Master 1 symmetrical (XLR): 1.55V / 600Ω
- Monitor symmetrical (XLR): 1.55V / 600Ω
- Record asymmetrical (RCA): 500mV / 10kΩ
- Effects send asymmetrical (1/4" TRS JACK): 775mV / 10kΩ
- Headphones (1/4" TRS JACK):
    - 8Ω: (1kHz – 1%THD) 417mW (1.8V) / 1.1W music power
    - 32Ω: (1kHz – 1%THD) 1.0W (5.7V) / 1.7W music power
    - 600Ω: (1kHz – 1%THD) 520mW (17.7V) / 0.6W music power

Digital input:

- Line B (RCA): S/P DIF IEC 958 type II 32kHz – 192kHz
- USB (optional): 32kHz - 48kHz 16bit

Digital output:

- Record (RCA): S/P DIF IEC 958 type II 44.1kHz
- USB (optional): 11.025kHz - 48kHz 16bit

Signal headroom: 20.0dB @ 1kHz / THD < 0.05%

Crosstalk:

- Left to right of an input channel: >60dB @ 1kHz
- Channel to channel: >86dB @ 1kHz

Frequency response: +/- 0.25 dB from 20Hz to 20kHz

Subsonic filter: -25dB at 10Hz

Dynamic range: 103dB
Signal to noise ratio: 90dB

Total harmonic distortion: < 0.006%

Music equalizer:	Low: +10dB / -21dB at 100Hz Mid: +10dB / -21dB at 1kHz High: +10dB / -21dB at 10kHz
Microphone equalizer:	Low: +12dB / -12dB at 100Hz Mid: +12dB / -12dB at 1kHz High: +12dB / -12dB at 10kHz
Monitor output equalizer:	Low: +12dB / -12dB at 100Hz High: +12dB / -12dB at 10kHz

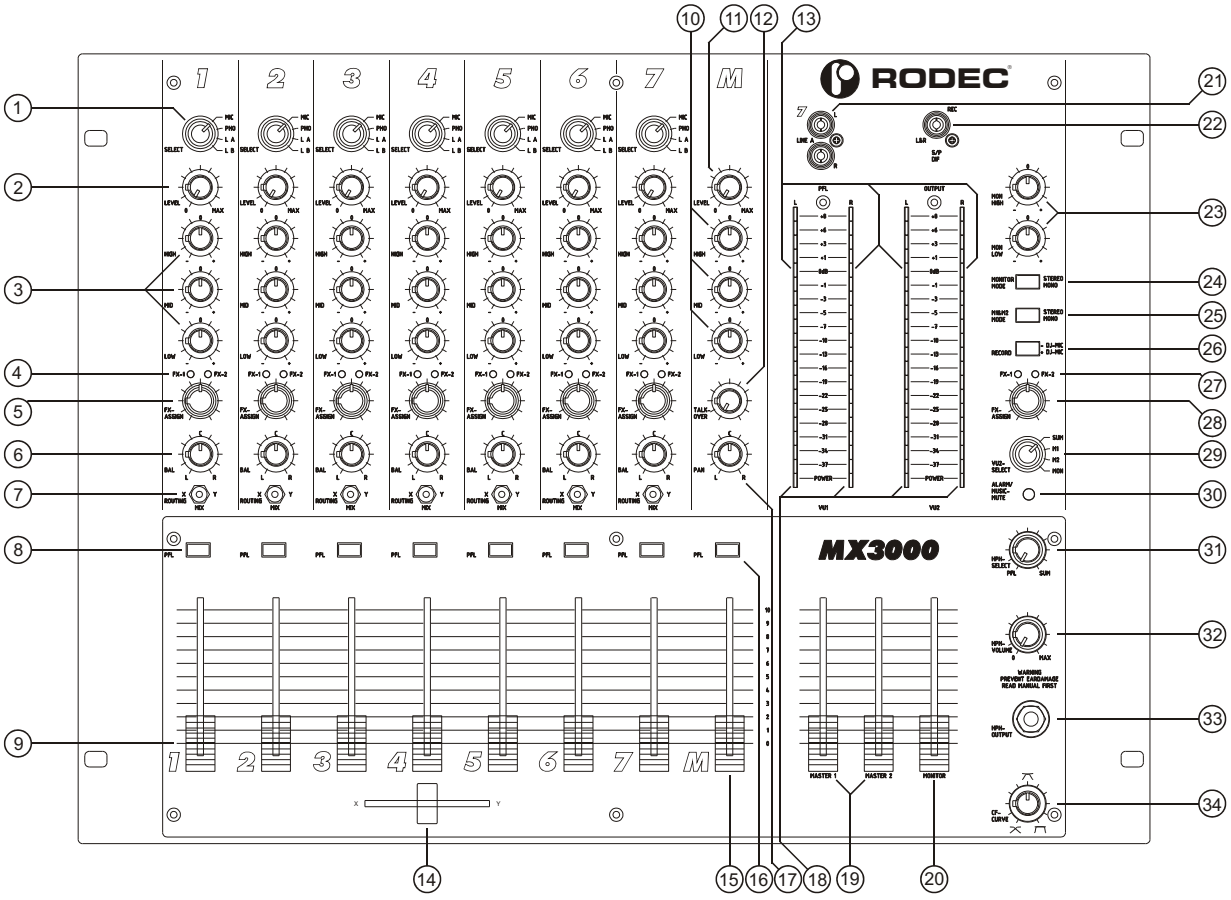
Power supply voltage: 90VAC – 264VAC
Power supply frequency: 47Hz – 63Hz
Power consumption: 45W (On), 68W (Full load), 6W (Stand by)
Operating temperature: 0°C (32°F) – 40°C (104°F)
Operating humidity: 5% - 90% (no condensation)

5.6.1. MECHANICAL SPECIFICATIONS

Frontpanel dimensions (W x D): 320.0mm (12.6”) x 355.0mm (14.0“) (8HE)
Bottombox dim. (W x D x H): 312.0mm (12.3“) x 343.0mm (13.5“) x 110.0mm (4.3“)
Panel cut out dimensions (W x D): 316.0mm (12.4“) x 347.0mm (13.7“)
Packed box dimensions (W x D x H): 410mm (16.2“) x 414mm (16.3“) x 207mm (8.1“)
Weight: 5.54kg (12.21lbs)
Packed weight: 6.70kg (14.77lbs)

6.0.0. OPERATING INSTRUCTIONS MX3000

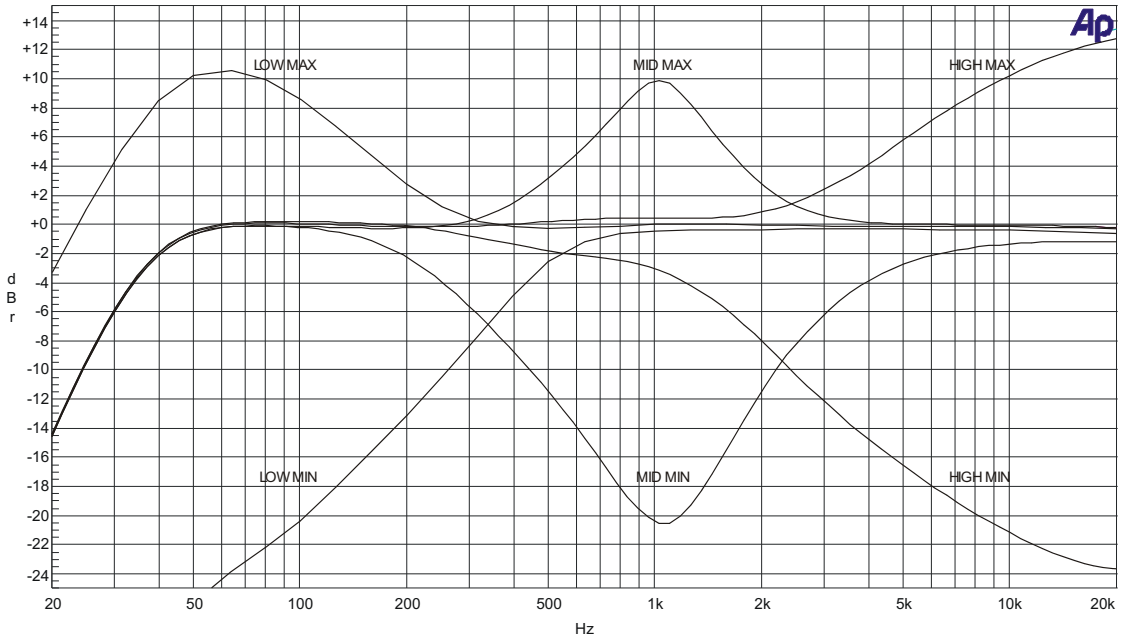
6.1.0. FRONTPANEL WITH CONTROLS



1) **Input select switch**
This selector is used to select the input signal: MICRO, PHONO, LINE A or LINE B.

2) **Input level potentiometer**
With this control the input level of each input channel can be set.

3) **Equalizer controls**
These controls regulate Treble, Middle and Bass levels.



4) **Input channel effects assign indication LED's**
These LED's indicate which channel is routed trough one of the effects outputs. If the FX-1 and FX-2 LED's do not light up, no channel is routed via the effects. If the FX-1 LED of a channel lights up green, that channel is routed via effects output 1. If the FX-1 LED of a channel lights up red, one of the other channels is routed via FX-1 and no other channel can be routed via FX-1 at that moment.
Same counts for the FX-2 LED that lights up. If the FX-1 LED is blinking red, the input channel effects assign potentiometer (5) must be turned back to its center position because it was initially placed in a fault position.

5) **Input channel effects assign potentiometer**
With this control, the input signal can be routed via effects output 1 or 2. When the knob is placed in the center (12 o'clock) position, the signal goes straight to the main mix without passing via one of the effects-outputs. When the knob is turned to the left, the signal will go via the effects 1 output. When the knob is turned to the right, the signal will go via the effects 2 output. The proportion between the dry (no effect) and wet (100% effect) can be set with the potentiometer.

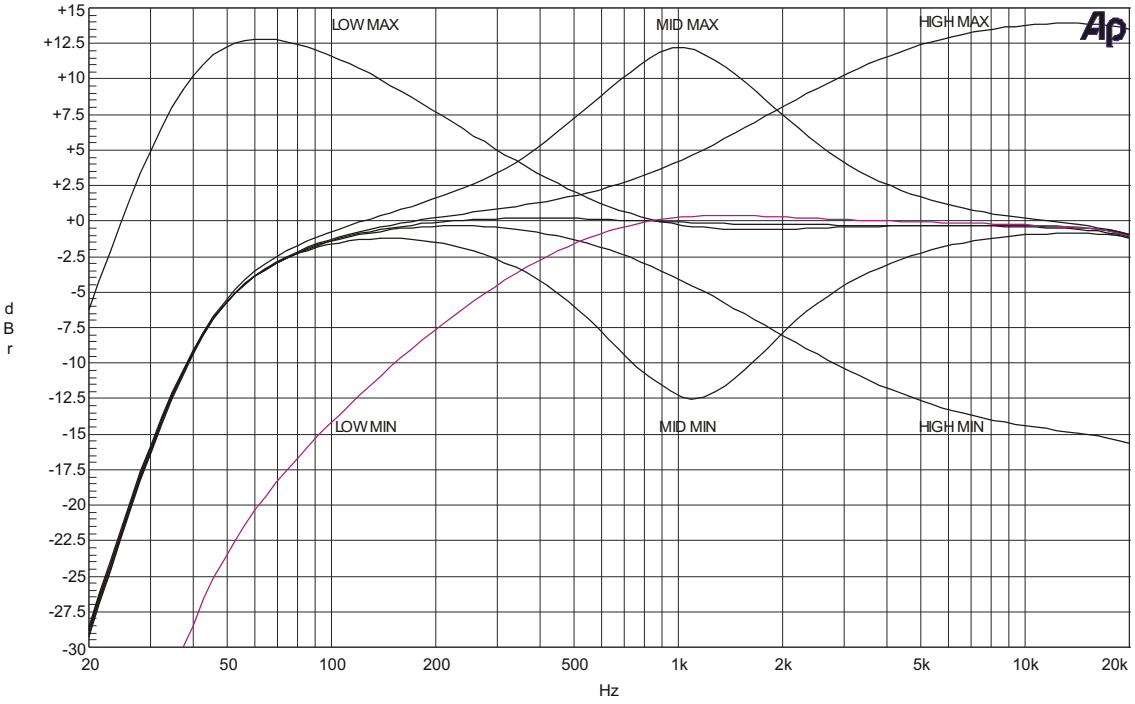
6) **Balance control**
The balance between Left and Right channel is adjusted by using this knob. When it is set to the center position, the gain is the same for both channels. When turned to the left, the right channel will decrease. When turned to the right, the left signal will decrease.

7) **Routing selector**
With this selector the signal can be lead: to the left side of the crossfader (X), directly to the output (MIX) or to the right side of the crossfader (Y).

8) **PFL switches**
With these switches you can select the different input sources for the headphones.

9) **Channel faders**
Volume control for every input channel.

10) **Equalizer**
Triple tone control for DJ microphone.



11) **DJ microphone input level potentiometer**
Control for accurate level-adjustment of different types of microphones.

12) **Talk-over control**
Control for the amount of music suppression controlled by the DJ microphone signal.

13) **VU meters**
The two left meters indicate the PFL signal. The right VU-meter displays the output signals, depending on the position of the VU-2 signal select switch (29).

14) **Crossfader**
With this fader you can easily fade over between the channels with routing-selector (7) on X-position and the channels with routing-selector (7) on Y-position. When the knob is turned completely to the left, the signal of the channels with routing selector (7) on X will appear on the output. When the knob is turned completely to the right, the signal of the channels with Routing selector (7) on Y will appear on the output. In between there will be a mix of both signals.

15) **DJ microphone fader**
Volume control for DJ microphone

16) **DJ microphone PFL switch**
With this switch the microphone signal can be made audible in the headphones and made visible on the left VU-meters.

17) **Pan Mic**
Panoramic control for DJ microphone input. With this button you can position the microphone signal between the left and right loudspeaker.

18) **Power "ON" indicators**
These indicators light up when the power is on.

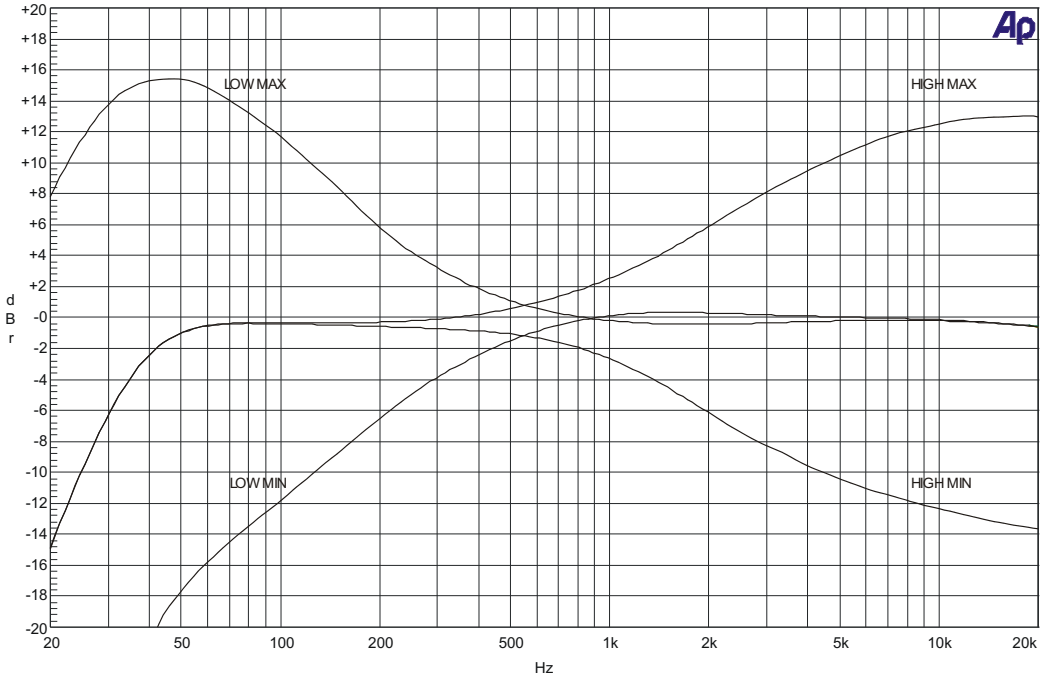
19) **Master 1 and master 2 output fader**
Volume controls final output of mixer towards slave or integrated amplifiers.

20) **Monitor output fader**
Volume control for the signal level for the monitor output, this output does not contain the DJ-mic signal to avoid feedback of the microphone-signal via the monitor loudspeakers.

21) **Channel 7 – LINE A input**
Input with a sensitivity of 500mV. To connect different equipment such as a CD-player, MD-player, MP3-player, sampler, sequencer, etc.

22) **S/P DIF Recording output**
Output to connect a recorder to make recordings of the mixed signal. This output can be switched, with or without DJ-microphone.

23) **Monitor equalizer controls**
Bass and treble adjustment for the monitor output.



24) **Monitor mode Switch**
This switch is used to set the monitor output in mono or stereo mode.

25) **Master 1 and master 2 mode Switch**
This switch is used to set the master 1 and 2 outputs in mono or stereo mode.

26) **Record Select**
This switch is used to make recordings with or without the DJ microphone.
+ DJ MIC: in this position you add the DJ mic signal to the music.
- DJ MIC: in this position you only record the signal from channel 1 - 7.

This switch has no influence on the master outputs.

27) **Main mix effects assign indication LED's**
These LED's indicate if the main mix signal is routed through one of the effects outputs. If the FX-1 and FX-2 LED's do not light up, the main mix signal is not routed via the effects. If the FX-1 LED lights up green, the main mix signal is routed via effects output 1. If the FX-1 LED lights up red, an input channel's signal is routed via FX-1 output and no other channel can be routed via FX-1 at that moment.
Same counts for the FX-2 LED that lights up. If the FX-1 LED is blinking red, the main mix effects assign potentiometer (28) must be turned back to its center position because it was initially placed in a fault position.

28) **Main mix effects assign potentiometer**
With this control, the main mix signal can be routed through effects output 1 or 2. When the knob is placed in the center (12 o'clock) position, the signal goes straight to the main mix without passing through one of the effects-outputs. When the knob is turned to the left, the signal will go through the effects 1 output. When the knob is turned to the right, the signal will go through the effects 2 output. The proportion between the dry (no effect) and wet (100% effect) can be set with the potentiometer.

29) **VU-2 signal select switch**
With this switch is it possible to select the signal displayed on the two right VU-meters. When the switch is on the SUM position the mix-signal will be displayed. On the positions MASTER 1, MASTER 2 and MONITOR the according output signals will be displayed.

30) **Alarm/music mute indicator LED**
This LED indicates the amount of music suppression due to the control signal on the optional alarm/music mute input. When the LED doesn't light up, the music is not suppressed. When the LED lights up at full power, the music is fully suppressed.

31) **Headphones-select potentiometer**
With this potentiometer, the signal for the headphones output can be selected. When turned completely to the left, the signal selected with the channel PFL-switches (8) appears on the headphones. When turned completely to the right, the mix-signal appears on the headphones. In between it results in a mix of the PFL-signal and the mix-signal.

32) **Headphones volume control**
The volume of the headphones can be adjusted with this knob.

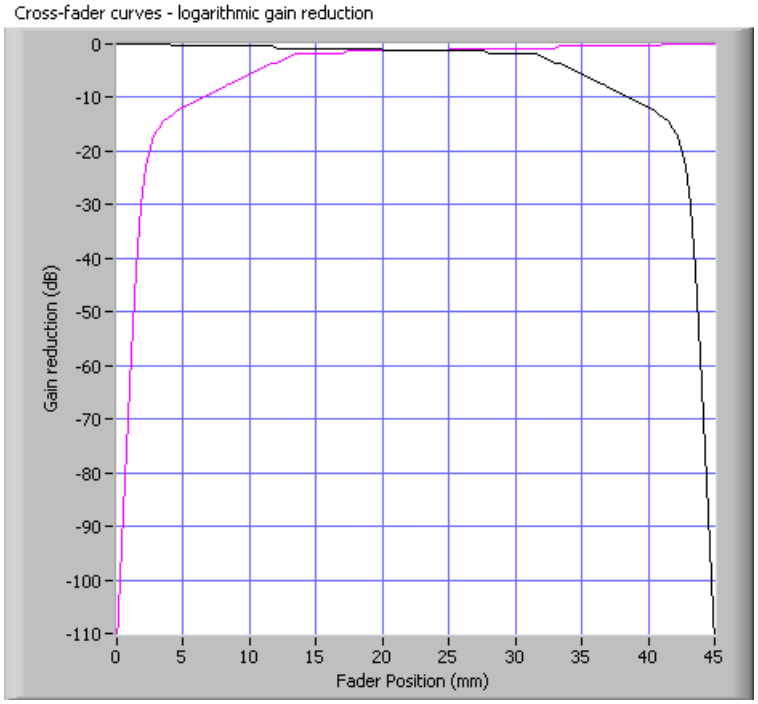
> **WARNING!** The sound and intensity volume of the headphones amplifier can be very strong and, if not used properly, or if used in too close proximity, can cause permanent or temporary damage to one's hearing, perhaps even deafness.
>
> Please use with caution and common sense!

33) **Phones output**
Output for high level headphones monitoring. With the PFL switches (8 or 16) and the headphones-select potentiometer (31), the connected audio sources or the main-mix can be made audible without manipulating the output signal (Headphones 32-600□).

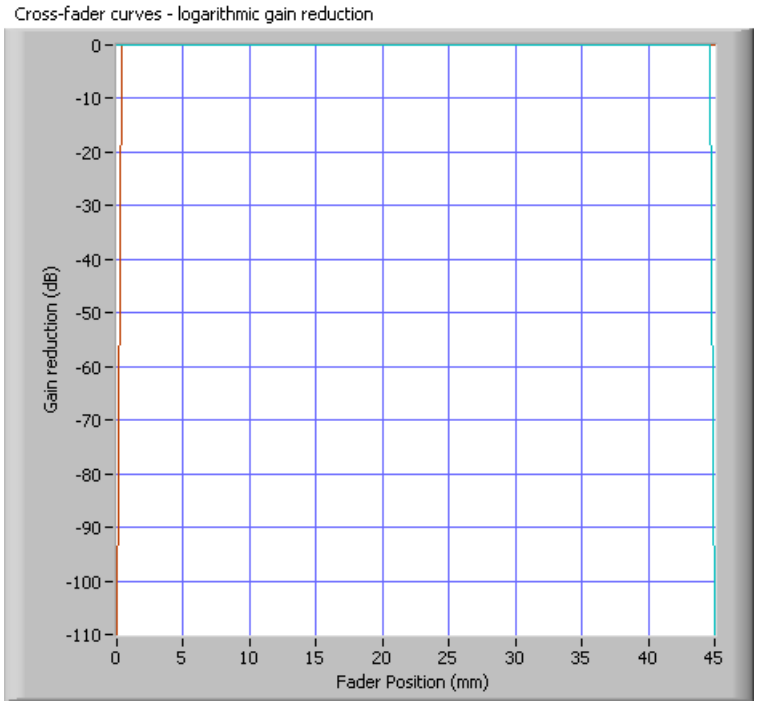
ATTENTION! Always turn headphones volume to “0” (fully counter clockwise) **BEFORE** putting the headphones on your or somebody else her/his ears! Then slowly raise the volume by turning the volume knob in clockwise direction.

34) **Cross fader curve potentiometer**

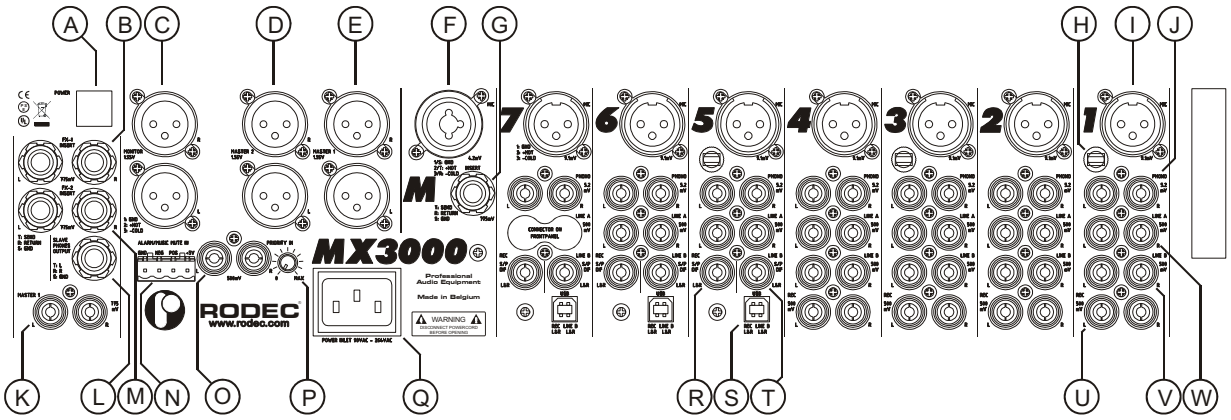
This potentiometer is used to set the sharpness of the cross fader. When the potentiometer is turned completely to the left, the cross fader (14) will react as a normal cross fader. The volumes of the channels with routing-selector (7) on Y-position will rise from 0 to maximum when the shaft of the cross fader is moved from the left to the middle. The same counts for the volumes of the channels with routing-selector (7) on X-position, but then from the right side to the middle.



When the curve potentiometer is turned to the right, the cross fader will react very fast, with the volumes of the channels with routing-selector (7) on Y-position rising from 0 to maximum when the shaft of the cross fader is moved from the left to a few fractions from the left. The same counts for the volumes of the channels with routing-selector (7) on X-position, but then from the right side to a few fractions from the right side.



6.2.0. BACKPANEL WITH CONNECTORS



A) **Power switch**
Controls the supply of AC power to the set. A single push turns on the mixing panel, a second push turns it off.

Attention! By turning off this switch, the mixing panel is in stand-by mode. At that moment the mixing panel will still consume electricity from the mains net. The power cord has to be unplugged from the power inlet to shut down all power.

B) **Effects IN/OUT 1**
In- and output to connect effect equipment to the music signal. The signal that runs through this connector is controlled by the input channel effects assign potentiometer (5) or main mix effects assign potentiometer (28). Internally linked when JACK is not inserted. Sensitivity 775mV.

C) **Symmetrical monitor output**
Additional output up to 1.55V controlled by monitorfader (20). The DJ-microphone signal does not appear on this output.

D) **Symmetrical master output 2**
Symmetrical output to connect power-amplifier or loudspeaker-processor. The output level can be manipulated with master fader 2 (19) from 0 to maximum (1.55V).

E) **Symmetrical master output 1**
Symmetrical output to connect a power-amplifier or loudspeaker-processor. The output level can be manipulated with master fader 1 (19) from 0 to maximum (1.55V).

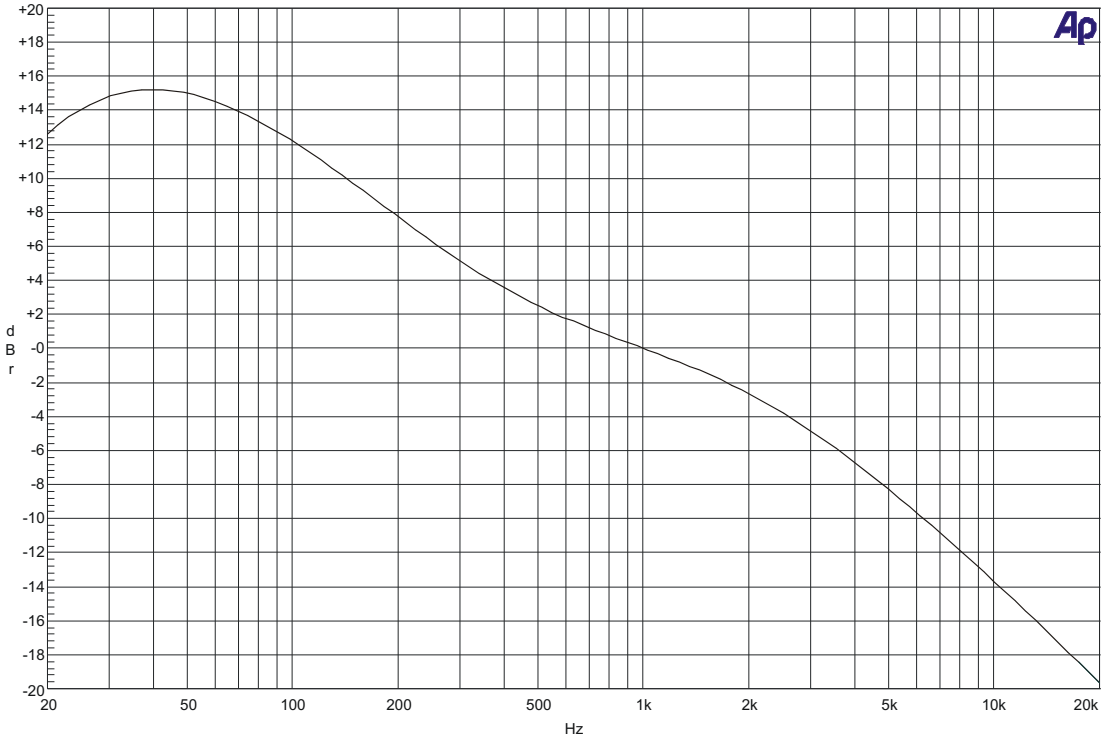
F) **DJ microphone input**
Balanced microphone input with a sensitivity of 4.2mV, with XLR-JACK combination connector.

G) **Effects IN/OUT**
Input and output to connect effect equipment to the microphone channel. If there is no plug in the JACK connector, the microphone channel works normally, if there is a plug inserted in the JACK, the internal link is interrupted. The sensitivity of this IN/OUT connection is 775mV.

H) **Ground-terminal**
Terminal to connect the ground wire of the vinyl turntable.

I) **Micro input**
Balanced microphone input. To obtain good signal quality, you have to use a microphone with balanced output. The use of a microphone without balanced output is also possible.

J) **PHONO input**
Phono input with a sensitivity of 5.2mV and built in RIAA correction.



K) **Asymmetrical master output 1**
Asymmetrical output to connect a power-amplifier. The output level can be manipulated with master fader 1 (19) from 0 to maximum (0.775V).

L) **Second headphones connector**
Signal identical as headphones-output on the frontpanel (33). The specifications are the same as the headphones output on the frontpanel.

M) **Effects IN/OUT 2**
In- and output to connect effect equipment to the music signal. The signal that will run through this connector is controlled by the input channel effects assign potentiometer (5) or main mix effects assign potentiometer (28). Internally linked when JACK is not inserted. Sensitivity 775mV.

N) **Alarm / music mute in connector**
Optional 4-pole connector to mute or turn off the music signal remote controlled. The DJ microphone signal will keep on working normally when the music is muted by the signal on this connector.

O) **Priority signal input**
Optional input to connect a signal coming from an evacuation-message player, alarm-signal generator, etc. This signal can be played at the moment when the other music signals are muted by the signal on the alarm / music mute connector.

P) **Priority signal input level potentiometer**
With this control the input level of the priority signal (O) can be set.

Q) **Power inlet**
Universal mains power inlet.

R) **Digital recording output**
Output to connect to a S/P DIF input of a MD-recorder, CD-recorder, HD-recorder or DAT-recorder to make recordings. This output can be switched with or without recording the DJ microphone signal (26). Both signals (left and right) go through one connector. (Only provided on channels 5, 6 and 7)

S) **USB input/output**
Optional USB connector to play music from PC or HD-player and simultaneously record the main mix signal with a PC or HD-recorder. All 4 signals (reproduction left and right and recording left and right) go through one connector. (Only possible on channels 5, 6 and 7)

T) **Digital line input B**
Digital S/P DIF input, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player or digital tuner. Both signals (left and right) go through one connector. (Only provided on channels 5, 6 and 7)

U) **Analogue recording output**
Output to connect analogue recording device or (HIFI) video recorders to make recordings. This output can be switched with or without recording the DJ microphone signal (26). (Only provided on channels 1, 2, 3 and 4)

V) **Analogue line input B**
Analogue asymmetrical input with a sensitivity of 500mV, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player, analogue - or digital tuner, cassette player or video player. (Only provided on channels 1, 2, 3 and 4)

W) **Analogue line input A**
Analogue asymmetrical input with a sensitivity of 500mV, to connect different equipment such as a CD player, MD player, DVD player, MP3-player, HD-player, analogue - or digital tuner, cassette player or video player.

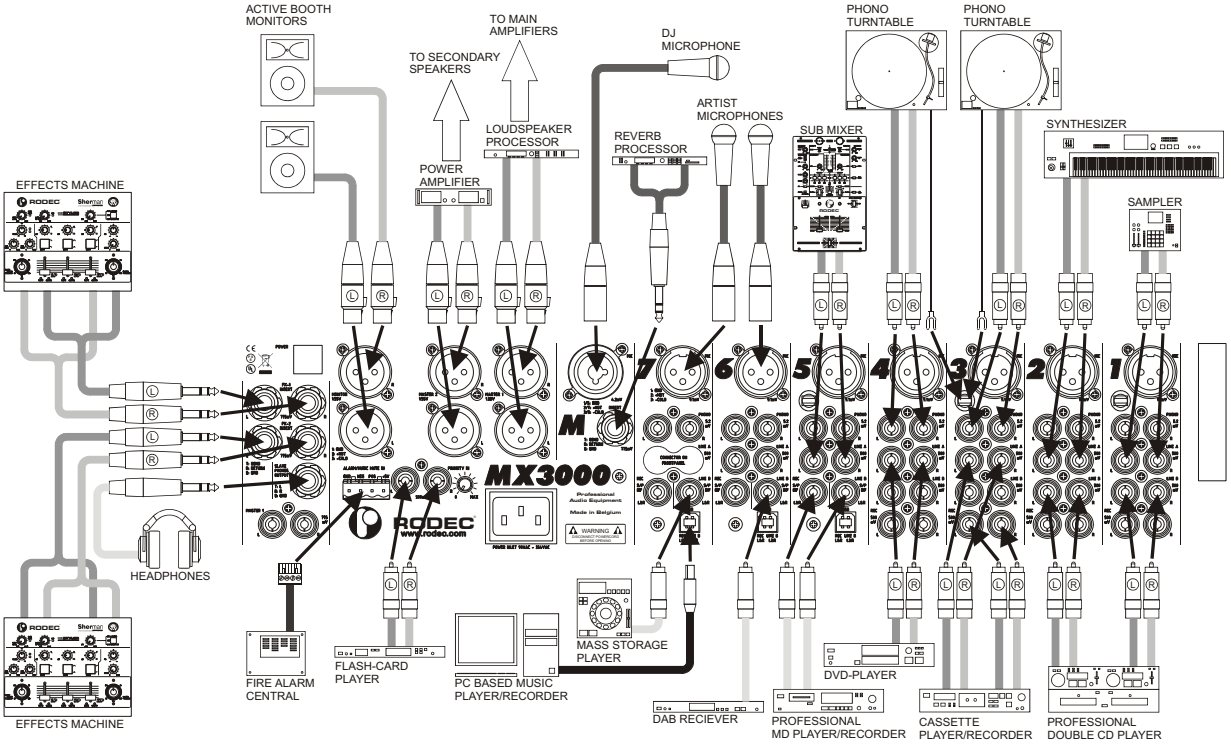
Please use signal cables shorter than 1 meter for the inputs and the outputs.

6.3.0. OPERATING INSTRUCTIONS

For correct operation of the mixing panel, please follow the instructions below.

1) Before connecting anything to the mixing panel, be sure all equipment is turned off. Then connect the different audio sources, amplifiers, effects-units, headphones, etc.. Next step is to turn on the audio sources and effects-units.
When all these units are in ready state, you can switch on the power switch (A) of the mixing panel. The power indicators (18) will light up.

After 5 seconds, you can turn on the loudspeaker processors and amplifiers.



2) Connect the headphones to the headphones JACK connector (33) or (L). Use headphones with impedance between 32 and 600Ω.

ATTENTION! Always turn headphones volume to “0” (fully counter clockwise) **BEFORE** putting the headphones on your or somebody else her/his ears! Then slowly raise the volume by turning the volume knob in clockwise direction.

3) Choose with the input select switch (1) the right audio-source.

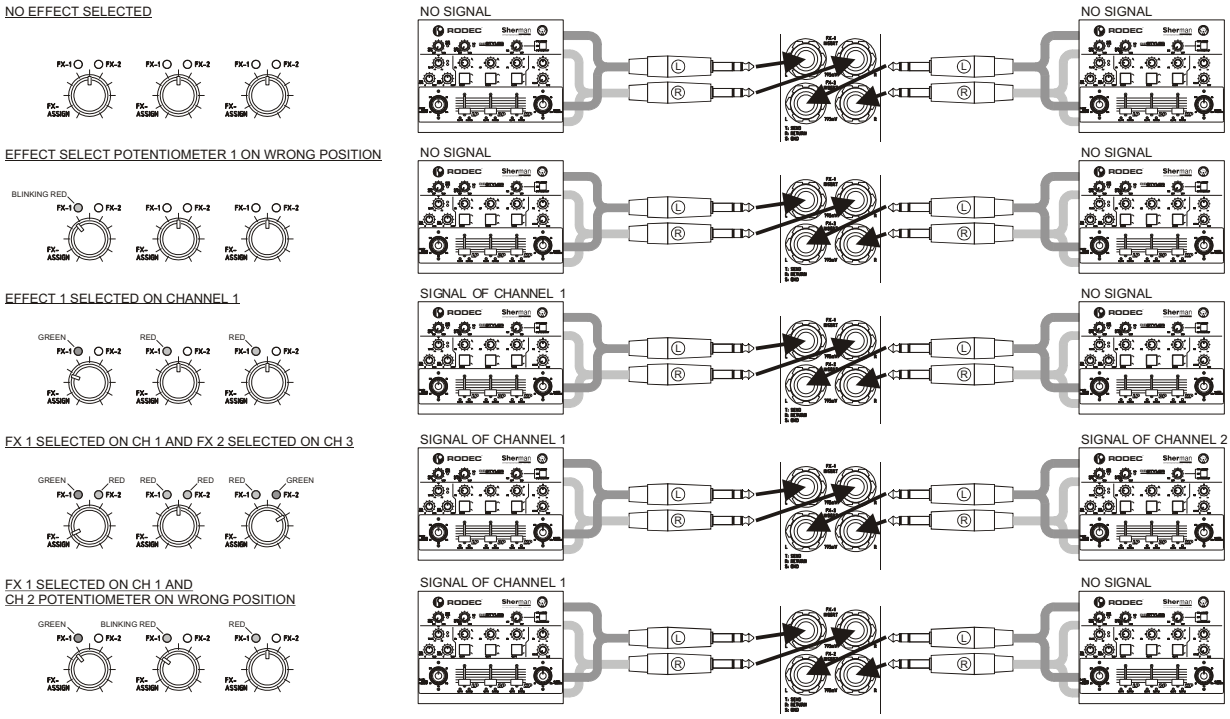
4) Switch the PFL button (8) in position ON to listen at the desired source. Turn the phones select button (31) completely to the left and turn the phones volume potentiometer (32) to the desired position to get the stereo signal on the headphones and the two left VU-meters. The PFL circuit works as a sum-system, there is a possibility to listen to more sources at the same time. All these operations have no influence on the output signal! Adjust with the level control (2) the input signal until the red indicators of the level meters (13) will light up occasionally. Adjust if necessary the quality of the sound with the equalizer (3).

   LOOK OUT: The equalizer at each input is used to manipulate the sound of each of the input sources. To correct the acoustic of the room it is probably best to use an external equalizer.

5) To send the input signal through one of the effects outputs, first check if the desired effects bus is free. This can be done by checking the input channel effects assign indication LED’s (4). If the FX-1 LED does not light up, the FX-1 bus is free. If the FX-2 LED does not light up, the FX-2 bus is free. If one of the LED’s is blinking red, the input channel effects assign potentiometer (5) is in a wrong position. Then first turn the input channel effects assign potentiometer to its 12 o’ clock position, so the LED will stop blinking. To select the FX-1 bus, turn the input channel effects assign potentiometer to the left, first, no effect will be audible, but the influence of the effect will increase when the potentiometer is turned further to the left. When the potentiometer is completely to the left, 100% of the signal will be influenced by the effect.
   The same procedure can be followed to select FX-2, but then the potentiometer has to be turned to the right.

   When the FX-1 bus is selected, the according LED will light up green, same for the FX-2 bus.

   On the other input channels and on the main mix, the according LED will light up red, to indicate the according effects-bus is occupied.



6) Open up the fader (9) of the chosen input channel

7) Slide up one or both master faders (19) till desired volume is reached. Also open the monitor fader (20), to hear the music at the DJ-booth.

8) The music in the DJ-booth can be manipulated with the monitor equalizer (23).

9) Correct if necessary the balance with button (6), for monophonic sound on master 1 and 2 set switch (25) in mono position. For monophonic sound on monitor output, set switch (24) in mono position.

10) If you like to use the crossfader (14), you can route the channel to the left (X) side of the crossfader by putting the routing switch (7) on CF-X position. Or to the right (Y) side of the crossfader when you put the routing switch (7) on the CF-Y position. The response curve of the cross fader (14) can be adjusted with the cross fader curve potentiometer (34).

11) To change the source, repeat point 3) to 6).

12) By turning the headphones select potentiometer (31) more clockwise, you will increase the amount of the main mix signal in the headphones.

13) To add a microphone signal, connect the microphone to the MIC input (F). Turn the level control (11) and the talk-over (12) to zero, slide up the MIC fader (15) to maximum and adjust with the level button (11) the volume of the microphone. Adjust with the equalizer (10) the sound of the microphone. To use the talk over, adjust the talk over button (12) (0= no decrease, 10= total decrease). With the pan MIC (17), the DJ microphone signal can be placed somewhere between left and right. Eventually you can connect an external processor (example: compressor or reverb) to the effects insert (G) of the microphone channel.

14) The mixed signal can be recorded, simply by connecting a recorder to the analogue (U) or digital (R or 22) record-connectors. Depending on the position of the record-select switch (26) you can decide if the microphone signal is also recorded or not. The mixed signal can also be recorded with a computer through the optional USB connector (S).

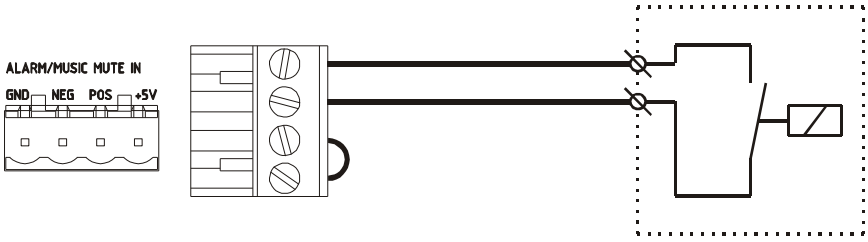
15) The main mix signal can also be lead to one of the effects insert outputs. This can be done in the same way as leading the signal of an input channel to the effects insert outputs, follow the instructions of point 5). The effects assign indication LED's for the main mix are LED's (27). The effects assignation for the main mix can be done with the main mix effects assign potentiometer (28).

16) On the right VU-meters the signal appears selected with the VU2-signal select switch (29). If you like to compare via the headphones and the left VU-meters the pre-fade signal with the output signal, you can do this by putting the rotative switch (29) on the SUM-position. By this the PFL-signal appears on the two left VU-meters and the output-signal on the other two VU-meters.

17) If you have an optional Alarm/Music mute priority unit at your disposal, you can mute the music remote controlled. The alarm/music mute connector has 4 connections (GND, NEG, POS, +5V). The music volume can be controlled following 4 basic principles:

    Switch-contact:

    Switching of the music remote controlled through a switch-contact in an alarm-central or some other system.

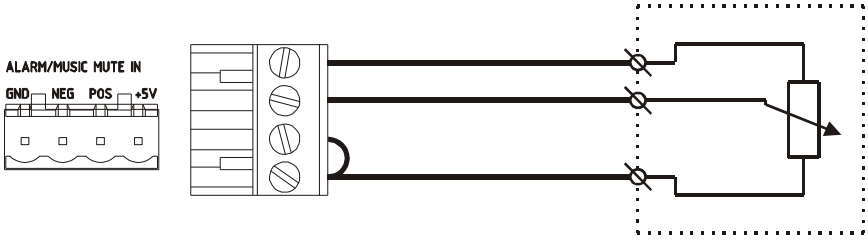


    Connect the switching contact between the connection "POS" and "+5V". Place a small wire between the connections "GND" and "NEG". When the switch-contact is open, the music will play normally, when the switch-contact is closed, the music will be muted.

    Also the alarm/music mute indicator LED (30) at the frontpanel will light up to indicate the music is muted remote controlled.

    Potentiometer:

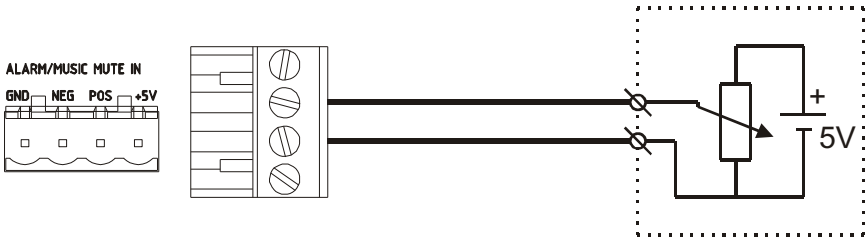
    Controlling the volume remote controlled with a potentiometer.



Use a potentiometer with total resistance between 1kilo-ohms and 100kilo-ohms. Connect the potentiometer between connections “GND” and “+5V”, connect the wiper to the connection “POS” (please follow the schematic diagram above). Place also a small wire between the connections “GND” and “NEG”. When the wiper of the potentiometer is turned completely to the “+5V” side (fully counter clockwise), the music will be completely muted, when the wiper is turned to the “GND” side (fully clockwise), the music will play normally. The alarm/music mute indicator LED (30) at the frontpanel will indicate the amount of music-surpression. When the music is totally muted the LED will light up completely. When the music is not muted the LED is turned off.

Variable 5V voltage source:

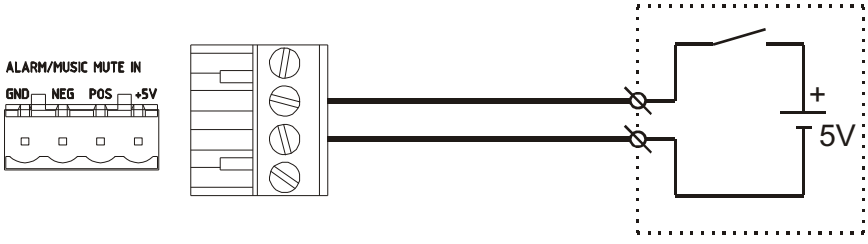
Controlling the volume with a 0V to 5V voltage source remote controlled.



Connect the 0Volts to 5Volts variable voltage source to connections “NEG” and “POS”. Connect the positive wire to the connection “POS” (please follow the schematic diagram above). When the voltage source is 0V, the music will play normally. When the voltage source it’s output voltage rises to 5V, the music will be muted. The alarm/music mute indicator LED (30) at the frontpanel will indicate the amount of music-surpression. When the music is totally muted the LED will light up completely. When the music is not muted the LED is turned off.

0V - 5V output:

Switching on/off the music with a 0Volts or 5Volts switching output.



Connect the positive contact of the 0Volts / 5Volts output to the connection ”POS” and the other contact to the connection “NEG”. When the 0V/5V output sends out 0V, the music will play normally, when there is 5V at this output, the music is muted. The alarm/music mute indicator LED (30) at the frontpanel will light up to indicate the music is muted remote controlled.

18) When the music is muted through the alarm/music mute input (N), an alarm message, alarm signal or evacuation message can be played via the priority input (O). Simply connect the alarm message-, alarm signal- or evacuation message player to the priority input RCA connector. For a correct operation, the level must be set in advance. This can be done as follows: turn all other music sources off, put the VU-2 signal select switch (29) on position SUM, start the alarm-message, alarm-signal or evacuation-message, turn up the level with the priority signal input level potentiometer (P) until the green 0dB LED’s on the VU-meter (13) lights up sometimes. At that moment the level is set correctly. Later when an alarm has to be given, the alarm system can mute the music through the alarm/music mute input and the message player can be started to play the message.

6.4.0. SUBSONIC FILTER

The two master outputs and the monitor output have a subsonic filter to protect the bass loudspeakers from DC and subsonic signals. This filter cannot be switched off. The filter gives a reduction of 25dB at 10Hz

6.5.0. OPTIONS

1) **USB I/O set MX00**

Optional input/output kit to connect the mixing panel with a computer. The USB connector contains 1 stereo input signal and 1 stereo record output signal. With this option music can be played from a computer via USB. Simultaneous the mixed music can be recorded via the computer. The option must be built in as follows: First pull off the fader knobs (9, 14, 15, 19 & 20) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom.

Screw of the hole cover plate (at the backpanel) which covers the desired hole for the USB option set. Place the USB option so that the 6 pole angled connector on the USB PCB fits in the 6 pole angled connector on the input PCB. Screw the screw in the hole in the backpanel to mount the USB option kit. Close the mixing panel again by replacing the bottombox (8 screws), the aluminum fader cover plate (6 screws) and the fader knobs (12 pieces).

Connect the USB I/O set to a computer via a USB-cable. The computer will recognize the USB I/O set. Select the USB I/O set as playback- and recording device in the sound and audio configuration menu of the computer or audio-software.

The USB I/O set MX00 can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0070

2) **Alarm/Music mute/Priority in set MX00**
With this optional set, the music can be muted or decreased in volume remote controlled.

This can be used to connect a fire-alarm system to the mixing panel so that the music mutes automatically when a fire-alarm signal appears. Through the priority input an automatically starting alarm message can be reproduced.

Another application of this set is controlling the output volume of the mixing panel remote controlled. In this way another person than the DJ can decide at every moment how loud the music is played in the venue.

The option must be built in as follows: First pull off the fader knobs (9, 14, 15, 19 & 20) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom.

Screw of the hole cover plate (at the backpanel), which covers the holes for the Alarm/Music mute/Priority in set. First connect the 6 pole connector of the optional alarm/music mute/priority in set to the 6 pole connector on the output PCB (68 001 0050). Screw the alarm/music mute/priority set to the backpanel with the screw (delivered together with the set). Close the mixing panel again by replacing the bottombox (8 screws), the aluminum fader cover plate (6 screws) and the fader knobs (12 pieces). Now the alarm/music mute/priority in set is ready to use.

The alarm/music mute/priority in set MX00 can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0071

3) **Digital optical input channel fader MX00 set**
Users can upgrade their mixing panel with digital faders on the music input channels. The digital faders replace the standard analogue faders. The option must be built in as follows: First pull off the fader knobs (9, 14, 15, 19 & 20) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Unscrew the channel fader, which you like to replace (2 screws). Pull off the 4 pole flat cable at the input PCB. Place the 10 pole flatcable (delivered together with the digital optical input channel fader set) on the 10 pole connector (right below the PFL switch) on the input channel PCB. Connect the other side of the flatcable to the digital optical input channel fader. Screw the fader to the frontpanel (2 screws), attention, the 10 pole connector on the fader PCB must be placed at the side of the crossfader (14). Replace the aluminum fader cover plate and fader knobs. The digital optical input channel fader is ready to use.

The digital optical input channel fader MX00 set can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0072

4) **Digital optical crossfader MX00 set**
The standard analogue crossfader can be upgraded by a digital optical crossfader. The option must be built in as follows: First pull off the fader knobs (9, 14, 15, 19 & 20) at the frontpanel. Then unscrew the aluminum fader cover plate (6 screws). Take of this aluminum plate. Then unscrew the bottombox, 3 screws at the frontpanel, one screw at each side and 3 screws at the bottom. Unscrew the crossfader (2 screws). Pull off the 4 pole flatcable of the crossfader on the

output PCB. Place the 10 pole flatcable (delivered together with the digital optical crossfader set on the 10 pole connector on the output PCB. Connect the other side of the flatcable to the digital optical crossfader. Screw the digital optical crossfader to the frontpanel (2 screws), attention, the 10 pole connector on the fader PCB must be placed at the opposite side of the output PCB. Replace the bottombox (8 screws), the aluminum fader cover plate (6 screws) and fader knobs. The digital optical cross fader is ready to use.

The digital optical cross fader MX00 set can be ordered at every authorized RODEC-dealer.

Order code: 94 001 0073

5) **Standard knobs set MX00 series**
The knobs of a MX00 series mixing panel can be ordered in a set. For a MX3000 you need 2 of these sets to replace all the knobs.
The standard knobs set MX00 series can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0074

6) **Fader knobs BX/CX/MX MKIII/MX00 series**
The fader knobs of a MX00 series mixing panel can be ordered in a set. For a MX3000 you need 2 of these sets to replace all the fader knobs.
The fader knobs BX/CX/MX MKIII/MX00 series can be ordered at every authorized RODEC-dealer.
Order code: 94 001 0041

6.6.0. SPECIFICATIONS

0dBm = 0.775V RMS

Nominal analogue input levels:
- Line A asymmetrical (RCA): 500mV / 50kΩ
- Line B asymmetrical (RCA): 500mV / 50kΩ
- Phono asymmetrical (RCA gold plated): 5.2mV / 50kΩ
- Microphone (channel 1 – 7) symmetrical (XLR): 9.1mV / 3.6kΩ
- Microphone symmetrical (XLR or ¼" TRS JACK): 4.2mV / 1.8kΩ
- Effects return (1/4" TRS JACK): 775mV / 10kΩ
- Priority in (optional) (RCA): 500mV / 1.5kΩ

Nominal analogue output levels:
- Master 1 asymmetrical (RCA): 775mV / 10kΩ
- Master 1 symmetrical (XLR): 1.55V / 600Ω
- Master 2 symmetrical (XLR): 1.55V / 600Ω
- Monitor symmetrical (XLR): 1.55V / 600Ω
- Record asymmetrical (RCA): 500mV / 10kΩ
- Effects send asymmetrical (1/4" TRS JACK): 775mV / 10kΩ
- Headphones (1/4" TRS JACK):
  - 8Ω: (1kHz – 1%THD) 417mW (1.8V) / 1.1W music power
  - 32Ω: (1kHz – 1%THD) 1.0W (5.7V) / 1.7W music power
  - 600Ω: (1kHz – 1%THD) 520mW (17.7V) / 0.6W music power

Digital input:
- Line B (RCA): S/P DIF IEC 958 type II 32kHz – 192kHz
- USB (optional): 32kHz - 48kHz 16bit

Digital output:
Record (RCA): S/P DIF IEC 958 type II 44.1kHz
USB (optional): 11.025kHz - 48kHz 16bit

Signal headroom: 20.0dB @ 1kHz / THD < 0.05%

Crosstalk:
Left to right of an input channel: >60dB @ 1kHz
Channel to channel: >86dB @ 1kHz

Frequency response: +/- 0.25 dB from 20Hz to 20kHz
Subsonic filter: -25dB at 10Hz

Dynamic range: 103dB
Signal to noise ratio: 90dB
Total harmonic distortion: < 0.006%

Music equalizer: Low: +10dB / -21dB at 100Hz
Mid: +10dB / -21dB at 1kHz
High: +10dB / -21dB at 10kHz

Microphone equalizer: Low: +12dB / -12dB at 100Hz
Mid: +12dB / -12dB at 1kHz
High: +12dB / -12dB at 10kHz

Monitor output equalizer: Low: +12dB / -12dB at 100Hz
High: +12dB / -12dB at 10kHz

Power supply voltage: 90VAC – 264VAC
Power supply frequency: 47Hz – 63Hz
Power consumption: 58W (On), 84W (Full load), 6W (Stand by)
Operating temperature: 0°C (32°F) – 40°C (104°F)
Operating humidity: 5% - 90% (no condensation)

6.6.1. MECHANICAL SPECIFICATIONS

Frontpanel dimensions (W x D): 482.0mm (19.0”) x 355.0mm (14.0“) (8HE)
Bottombox dim. (W x D x H): 442.0mm (17.4“) x 343.0mm (13.5“) x 110.0mm (4.3“)
Panel cut out dimensions (W x D): 446.0mm (17.6“) x 347.0mm (13.7“)
Packed box dimensions (W x D x H): 523mm (20.6“) x 414mm (16.3“) x 207mm (8.1“)
Weight: 7.22kg (15.92lbs)
Packed weight: 8.36kg (18.43lbs)

7.0.0. TECHNICAL INFORMATION

7.1.0. MX1400 PART LIST

RC number	Device	99 001 0024
51 504 0006	Wire 45mm yellow/green stripped 3mm	1
51 504 0007	Wire 145mm yellow/green stripped 3mm	1
57 504 0025	Buscable 40p MX1400	1
57 504 0029	ID-cable 2p MX1400	1
57 504 0034	Flatcable 6p 200mm 3,96mm AWG18 2con	1
57 504 0037	Flatcable 4p 300mm 2con	1
57 508 0002	Mains IEC connector snap-in with faston	1
57 510 0001	Earth terminal	1
57 510 0014	Mains cable MX00 3 faston - 3p connector + 3mm eye	1
60 002 0001	Power cable 3pol	1
63 001 0022	Knob RODEC Soft Black/Red 10mm 180°/12	4
63 001 0023	Knob RODEC Soft Black/Grey 10mm 180°/12	14
63 001 0024	Knob RODEC Soft Black/Yellow 10mm 180°/12	4
63 001 0025	Knob RODEC Soft Black/White 10mm 180°/12	1
63 001 0026	Knob RODEC Soft Black/White 12mm 315°/14	3
63 001 0027	Knob RODEC Soft Black/White 12mm 180°/12	3
63 001 0031	Knob RODEC Soft Black/Blue 12mm 180°/12	4
63 001 0039	Knob RODEC Soft Black/Wine red 10mm 180°/12	1
63 003 0002	Knob Black 18x7x11 shaft=1.2x4	1
63 003 0003	Knob Soft touch Black/White T-shaft	5
63 004 0001	Pushknob square black	1
63 004 0004	Pushknob Rectangle black 5,5x10x6,0	3
63 004 0005	Pushknob Rectangle transparent white 5,5x10x6,0	4
68 001 0044	Fader unit SCRATCHBOX	1
68 001 0047	Analog input unit MX00	2
68 001 0048	Digital input unit MX00	1
68 001 0049	DJ microphone input unit MX00	1
68 002 0050	Output unit MX1400/MX2200	1
68 001 0051	LED VU single unit MX00	1
68 001 0054	Symmetrical output unit with mute	2
71 001 0009	Bold VK M3x10 black	2
71 001 0010	Bold M3x6 black	4
71 001 0012	Bold M3x8	1
71 001 0014	Hi-Lo 3.2x6.0	28
71 001 0015	Thread forming screw M4x10 THP	4
71 001 0016	Bold M3x5 black recessed	14
71 001 0018	Bold M3x5 stainless recessed	4

71 001 0019	Bold VK M3x16 black	2
71 002 0001	Nut M3 brass	4
71 003 0001	Washer nylon 3mm	2
71 003 0002	Washer metal D10/7	3
71 004 0001	Lock washer M3	4
71 004 0003	Blocsur JZE 8	3
71 004 0005	Blocsur JZ6	1
71 005 0009	Spacer self retaining M3x6	2
71 005 0010	Spacer for PCB 12,7mm for 4,7mm holes	4
74 001 0035	Frontpanel MX1400	1
74 001 0039	Frontpanel overlay MX1400	1
74 002 0009	Connection panel MX1400	1
74 003 0010	Bottombox MX1400	1
74 005 0003	Apparatus foot black	4
74 005 0012	Holecover with screw for USB-B	1
80 001 0004	Plastic bag 180mm x 250mm	1
80 001 0006	Plastic bag 600mm x 500mm	1
80 002 0006	Box MX1400	1
80 003 0006	Isomo MX1400/MX1800/MX2200/MX3000	2
83 002 0012	User manual MX1400	1
83 004 0003	Label Serialnumber RODEC	1
83 004 0005	Pink pack message	1
83 004 0054	Label Box MX1400	2
86 001 0002	HD 60mm fader 0° 1x10klin T-shaft DC 150mm NoDB	3
86 001 0003	HD 60mm fader 0° 2x10klog T-shaft DC 150mm	1
86 001 0004	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	1
86 001 0005	Switching power supply unit 2x18V 1.1A + 5V 0.9A	1

7.2.0. MX1800 PART LIST

RC number	Device	99 001 0025
51 504 0006	Wire 45mm yellow/green stripped 3mm	1
51 504 0007	Wire 145mm yellow/green stripped 3mm	1
57 504 0026	Buscable 40p MX1800	1
57 504 0030	ID-cable 2p MX1800	1
57 504 0034	Flatcable 6p 200mm 3,96mm AWG18 2con	1
57 504 0038	Flatcable 4p 400mm 2con	1
57 508 0002	Mains IEC connector snap-in with faston	1
57 510 0001	Earth terminal	2
57 510 0014	Mains cable MX00 3 faston - 3p connector + 3mm eye	1
60 002 0001	Power cable 3pol	1
63 001 0022	Knob RODEC Soft Black/Red 10mm 180°/12	5

63 001 0023	Knob RODEC Soft Black/Grey 10mm 180°/12	17
63 001 0024	Knob RODEC Soft Black/Yellow 10mm 180°/12	5
63 001 0025	Knob RODEC Soft Black/White 10mm 180°/12	1
63 001 0026	Knob RODEC Soft Black/White 12mm 315°/14	5
63 001 0027	Knob RODEC Soft Black/White 12mm 180°/12	3
63 001 0031	Knob RODEC Soft Black/Blue 12mm 180°/12	5
63 001 0039	Knob RODEC Soft Black/Wine red 10mm 180°/12	1
63 003 0002	Knob Black 18x7x11 shaft=1.2x4	1
63 003 0003	Knob Soft touch Black/White T-shaft	8
63 004 0001	Pushknob square black	1
63 004 0004	Pushknob Rectangle black 5,5x10x6,0	3
63 004 0005	Pushknob Rectangle transparent white 5,5x10x6,0	5
68 001 0044	Fader unit SCRATCHBOX	1
68 001 0047	Analog input unit MX00	2
68 001 0048	Digital input unit MX00	2
68 001 0049	DJ microphone input unit MX00	1
68 001 0050	Output unit MX1800/MX3000	1
68 002 0051	LED VU dual unit MX00	1
68 001 0054	Symmetrical output unit with mute	3
71 001 0009	Bold VK M3x10 black	3
71 001 0010	Bold M3x6 black	5
71 001 0012	Bold M3x8	1
71 001 0014	Hi-Lo 3.2x6.0	37
71 001 0015	Thread forming screw M4x10 THP	4
71 001 0016	Bold M3x5 black recessed	21
71 001 0018	Bold M3x5 stainless recessed	6
71 001 0019	Bold VK M3x16 black	4
71 002 0001	Nut M3 brass	7
71 003 0001	Washer nylon 3mm	2
71 003 0002	Washer metal D10/7	5
71 004 0001	Lock washer M3	7
71 004 0003	Blocsur JZE 8	5
71 004 0005	Blocsur JZ6	2
71 005 0009	Spacer self retaining M3x6	4
71 005 0010	Spacer for PCB 12,7mm for 4,7mm holes	4
74 001 0036	Frontpanel MX1800	1
74 001 0040	Frontpanel overlay MX1800	1
74 002 0010	Connection panel MX1800	1
74 003 0012	Bottombox MX1800/MX3000	1
74 005 0003	Apparatus foot black	4
74 005 0004	Hole plug 6.4mm black	1

74 005 0012	Holecover with screw for USB-B	2
74 005 0013	Holecover with screw for alarm/mute/priority in	1
80 001 0002	Plastic bag 700mm x 500mm	1
80 001 0004	Plastic bag 180mm x 250mm	1
80 002 0008	Box MX1800/MX3000	1
80 003 0006	Isomo MX1400/MX1800/MX2200/MX3000	2
80 003 0007	Isomo MX1800/MX3000 fill-up	1
83 002 0013	User manual MX1800	1
83 004 0003	Label Serialnumber RODEC	1
83 004 0005	Pink pack message	1
83 004 0055	Label Box MX1800	2
86 001 0002	HD 60mm fader 0° 1x10klin T-shaft DC 150mm NoDB	4
86 001 0003	HD 60mm fader 0° 2x10klog T-shaft DC 150mm	1
86 001 0004	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	3
86 001 0005	Switching power supply unit 2x18V 1.1A + 5V 0.9A	1

7.3.0. MX2200 PART LIST

RC number	Device	99 001 0026
51 504 0006	Wire 45mm yellow/green stripped 3mm	1
51 504 0007	Wire 145mm yellow/green stripped 3mm	1
57 504 0027	Buscable 40p MX2200	1
57 504 0031	ID-cable 2p MX2200	1
57 504 0034	Flatcable 6p 200mm 3,96mm AWG18 2con	1
57 504 0037	Flatcable 4p 300mm 2con	1
57 508 0002	Mains IEC connector snap-in with faston	1
57 510 0001	Earth terminal	2
57 510 0014	Mains cable MX00 3 faston - 3p connector + 3mm eye	1
60 002 0001	Power cable 3pol	1
63 001 0022	Knob RODEC Soft Black/Red 10mm 180°/12	6
63 001 0023	Knob RODEC Soft Black/Grey 10mm 180°/12	20
63 001 0024	Knob RODEC Soft Black/Yellow 10mm 180°/12	6
63 001 0025	Knob RODEC Soft Black/White 10mm 180°/12	1
63 001 0026	Knob RODEC Soft Black/White 12mm 315°/14	5
63 001 0027	Knob RODEC Soft Black/White 12mm 180°/12	3
63 001 0031	Knob RODEC Soft Black/Blue 12mm 180°/12	6
63 001 0039	Knob RODEC Soft Black/Wine red 10mm 180°/12	1
63 003 0002	Knob Black 18x7x11 shaft=1.2x4	1
63 003 0003	Knob Soft touch Black/White T-shaft	7
63 004 0001	Pushknob square black	1
63 004 0004	Pushknob Rectangle black 5,5x10x6,0	3
63 004 0005	Pushknob Rectangle transparent white 5,5x10x6,0	6

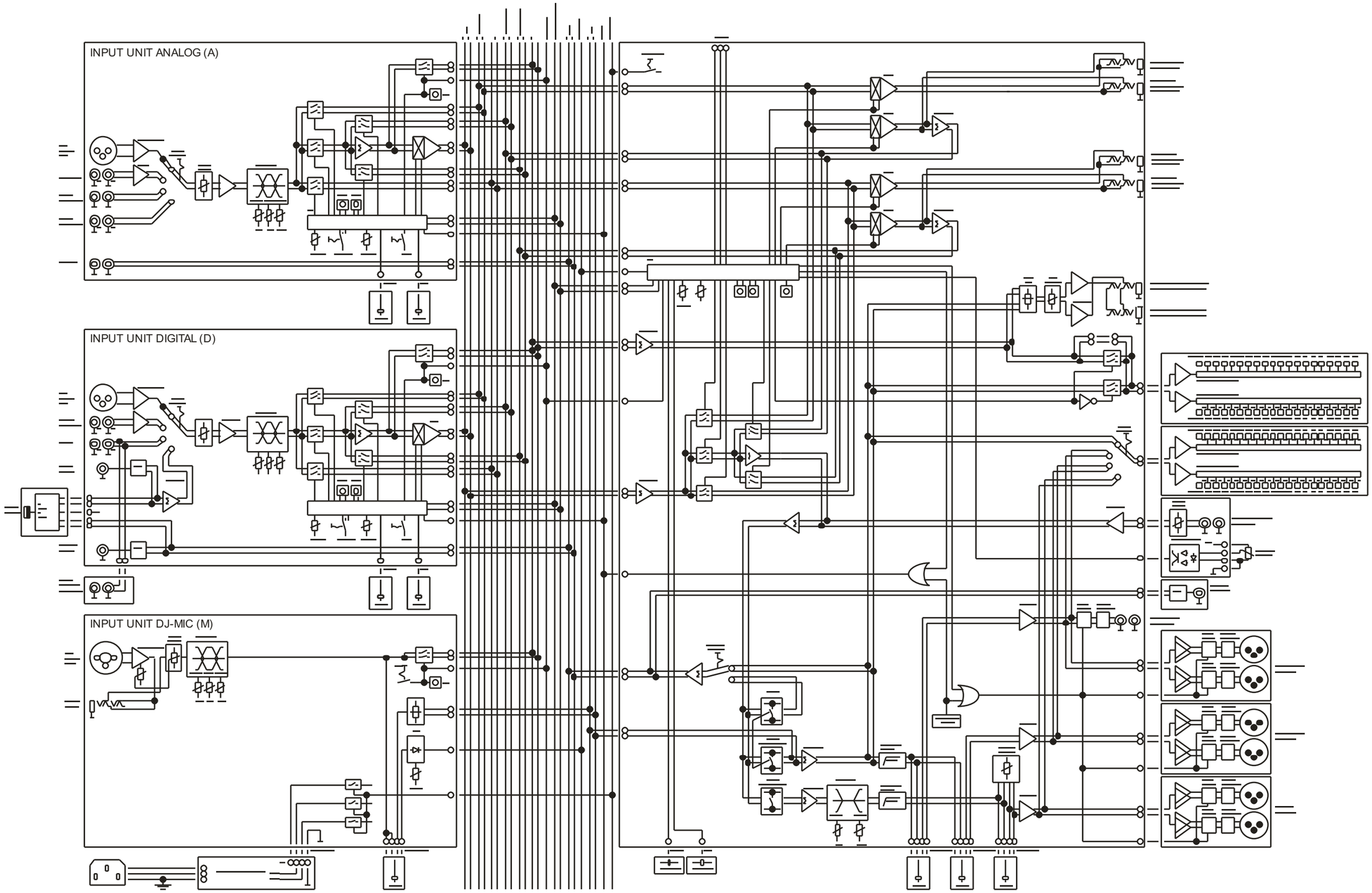
68 001 0044	Fader unit SCRATCHBOX	1
68 001 0047	Analog input unit MX00	3
68 001 0048	Digital input unit MX00	2
68 001 0049	DJ microphone input unit MX00	1
68 002 0050	Output unit MX1400/MX2200	1
68 001 0051	LED VU single unit MX00	1
68 001 0054	Symmetrical output unit with mute	2
71 001 0009	Bold VK M3x10 black	3
71 001 0010	Bold M3x6 black	5
71 001 0012	Bold M3x8	1
71 001 0014	Hi-Lo 3.2x6.0	39
71 001 0015	Thread forming screw M4x10 THP	4
71 001 0016	Bold M3x5 black recessed	19
71 001 0018	Bold M3x5 stainless recessed	6
71 001 0019	Bold VK M3x16 black	2
71 002 0001	Nut M3 brass	5
71 003 0001	Washer nylon 3mm	2
71 003 0002	Washer metal D10/7	5
71 004 0001	Lock washer M3	5
71 004 0003	Blocsur JZE 8	5
71 004 0005	Blocsur JZ6	2
71 005 0009	Spacer self retaining M3x6	2
71 005 0010	Spacer for PCB 12,7mm for 4,7mm holes	4
74 001 0037	Frontpanel MX2200	1
74 001 0041	Frontpanel overlay MX2200	1
74 002 0011	Connection panel MX2200	1
74 003 0011	Bottombox MX2200	1
74 005 0003	Apparatus foot black	4
74 005 0012	Holecover with screw for USB-B	2
80 001 0004	Plastic bag 180mm x 250mm	1
80 001 0006	Plastic bag 600mm x 500mm	1
80 002 0007	Box MX2200	1
80 003 0006	Isomo MX1400/MX1800/MX2200/MX3000	2
83 002 0014	User manual MX2200	1
83 004 0003	Label Serialnumber RODEC	1
83 004 0005	Pink pack message	1
83 004 0056	Label Box MX2200	2
86 001 0002	HD 60mm fader 0° 1x10klin T-shaft DC 150mm NoDB	5
86 001 0003	HD 60mm fader 0° 2x10klog T-shaft DC 150mm	1
86 001 0004	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	1
86 001 0005	Switching power supply unit 2x18V 1.1A + 5V 0.9A	1

7.4.0. MX3000 PART LIST

RC number	Device	99 001 0027
51 504 0006	Wire 45mm yellow/green stripped 3mm	1
51 504 0007	Wire 145mm yellow/green stripped 3mm	1
57 504 0028	Buscable 40p MX3000	1
57 504 0032	ID-cable 2p MX3000	1
57 504 0034	Flatcable 6p 200mm 3,96mm AWG18 2con	1
57 504 0038	Flatcable 4p 400mm 2con	1
57 508 0002	Mains IEC connector snap-in with faston	1
57 510 0001	Earth terminal	3
57 510 0014	Mains cable MX00 3 faston - 3p connector + 3mm eye	1
60 002 0001	Power cable 3pol	1
63 001 0022	Knob RODEC Soft Black/Red 10mm 180°/12	8
63 001 0023	Knob RODEC Soft Black/Grey 10mm 180°/12	26
63 001 0024	Knob RODEC Soft Black/Yellow 10mm 180°/12	8
63 001 0025	Knob RODEC Soft Black/White 10mm 180°/12	1
63 001 0026	Knob RODEC Soft Black/White 12mm 315°/14	8
63 001 0027	Knob RODEC Soft Black/White 12mm 180°/12	3
63 001 0031	Knob RODEC Soft Black/Blue 12mm 180°/12	8
63 001 0039	Knob RODEC Soft Black/Wine red 10mm 180°/12	1
63 003 0002	Knob Black 18x7x11 shaft=1.2x4	1
63 003 0003	Knob Soft touch Black/White T-shaft	11
63 004 0001	Pushknob square black	1
63 004 0004	Pushknob Rectangle black 5,5x10x6,0	3
63 004 0005	Pushknob Rectangle transparent white 5,5x10x6,0	8
68 002 0043	Digital output unit S/PDIF V2	1
68 001 0044	Fader unit SCRATCHBOX	1
68 001 0047	Analog input unit MX00	4
68 001 0048	Digital input unit MX00	2
68 002 0048	Digital input unit MX00 with 3p connector	1
68 001 0049	DJ microphone input unit MX00	1
68 001 0050	Output unit MX1800/MX3000	1
68 002 0051	LED VU dual unit MX00	1
68 001 0054	Symmetrical output unit with mute	3
68 001 0055	RCA front unit MX3000	1
71 001 0009	Bold VK M3x10 black	3
71 001 0010	Bold M3x6 black	5
71 001 0011	Screw recessed 2.9 a 3 x 10 a 13 black	2
71 001 0012	Bold M3x8	1
71 001 0014	Hi-Lo 3.2x6.0	53
71 001 0015	Thread forming screw M4x10 THP	4

71 001 0016	Bold M3x5 black recessed	27
71 001 0018	Bold M3x5 stainless recessed	6
71 001 0019	Bold VK M3x16 black	4
71 002 0001	Nut M3 brass	7
71 003 0001	Washer nylon 3mm	2
71 003 0002	Washer metal D10/7	8
71 004 0001	Lock washer M3	7
71 004 0003	Blocsur JZE 8	8
71 004 0005	Blocsur JZ6	3
71 005 0009	Spacer self retaining M3x6	4
71 005 0010	Spacer for PCB 12,7mm for 4,7mm holes	4
74 001 0038	Frontpanel MX3000	1
74 001 0042	Frontpanel overlay MX3000	1
74 002 0012	Connection panel MX3000	1
74 003 0012	Bottombox MX1800/MX3000	1
74 005 0003	Apparatus foot black	4
74 005 0004	Hole plug 6.4mm black	1
74 005 0012	Holecover with screw for USB-B	3
74 005 0013	Holecover with screw for alarm/mute/priority in	1
80 001 0002	Plastic bag 700mm x 500mm	1
80 001 0004	Plastic bag 180mm x 250mm	1
80 002 0008	Box MX1800/MX3000	1
80 003 0006	Isomo MX1400/MX1800/MX2200/MX3000	2
80 003 0007	Isomo MX1800/MX3000 fill-up	1
83 002 0015	User manual MX3000	1
83 004 0003	Label Serialnumber RODEC	1
83 004 0005	Pink pack message	1
83 004 0057	Label Box MX3000	2
86 001 0002	HD 60mm fader 0° 1x10klin T-shaft DC 150mm NoDB	7
86 001 0003	HD 60mm fader 0° 2x10klog T-shaft DC 150mm	1
86 001 0004	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	3
86 001 0005	Switching power supply unit 2x18V 1.1A + 5V 0.9A	1

7.5.0. BLOCK SCHEMATIC


INPUT UNIT ANALOG (A)
INPUT UNIT DIGITAL (D)
INPUT UNIT DJ-MIC (M)

7.6.0. DIFFERENCE BETWEEN 66 xxx xxxx AND 68 xxx xxxx

- 66 xxx xxxx = order code for naked PCB (without components)
- 68 xxx xxxx = order code for assembled PCB
  68 001 xxxx = first type of assembling
  68 002 xxxx = second type of assembling
  etc.

7.7.0. SIGNAL NUMBERS

7.7.1. 40-POLE BUSCABLE

Pin 01 -> FXASEND-L
Pin 02 -> FXASEND-R
Pin 03 -> AGND
Pin 04 -> FXBSEND-L
Pin 05 -> FXBSEND-R
Pin 06 -> AGND
Pin 07 -> MIX-L
Pin 08 -> MIX-R
Pin 09 -> AGND
Pin 10 -> FXARETURN-L
Pin 11 -> FXARETURN-R
Pin 12 -> AGND
Pin 13 -> FXBRETURN-L
Pin 14 -> FXBRETURN-R
Pin 15 -> AGND
Pin 16 -> PFL-L
Pin 17 -> PFL-R
Pin 18 -> AGND
Pin 19 -> MIC-L
Pin 20 -> MIC-R
Pin 21 -> AGND
Pin 22 -> REC-L
Pin 23 -> REC-R
Pin 24 -> MARESET
Pin 25 -> SDA
Pin 26 -> SCL
Pin 27 -> POWSW
Pin 28 -> TALKOVER
Pïn 29 -> PFLACTIVE
Pin 30 -> CPUCLK
Pin 31 -> -18V
Pin 32 -> - 18V
Pin 33 -> +18V
Pin 34 -> +18V
Pin 35 -> DGND
Pin 36 -> DGND
Pin 37 -> DGND
Pin 38 -> +5V
Pin 39 -> +5V
Pin 40 -> +5V

7.7.2. 6-POLE POWER SUPPLY CABLE

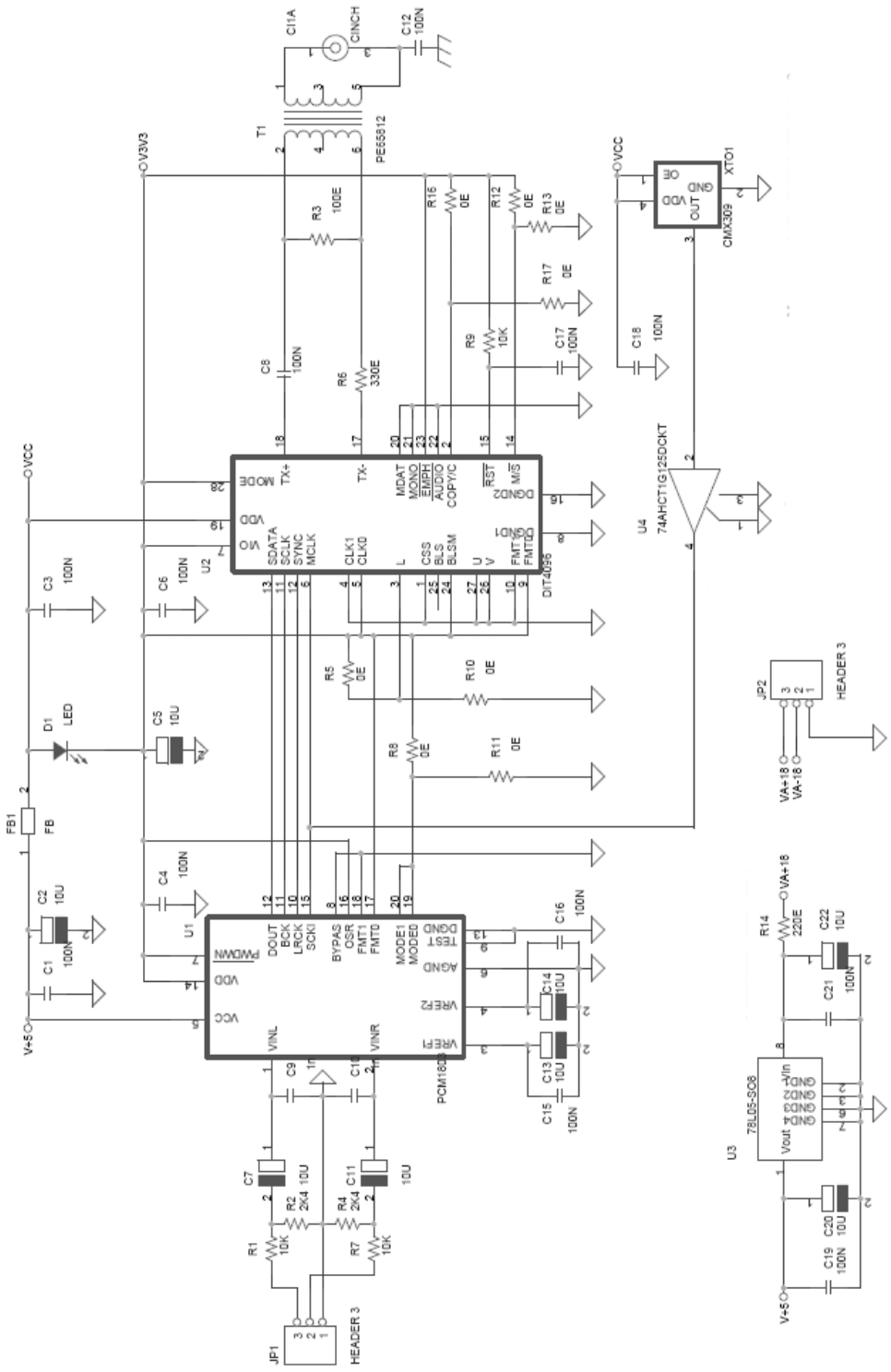
Pin 01 -> +5V
Pin 02 -> GND
Pin 03 -> +18V
Pin 04 -> GND
Pin 05 -> GND
Pin 06 -> -18V

7.7.3. 6-POLE HEADPHONES AMPLIFIER SUPPLY CABLE

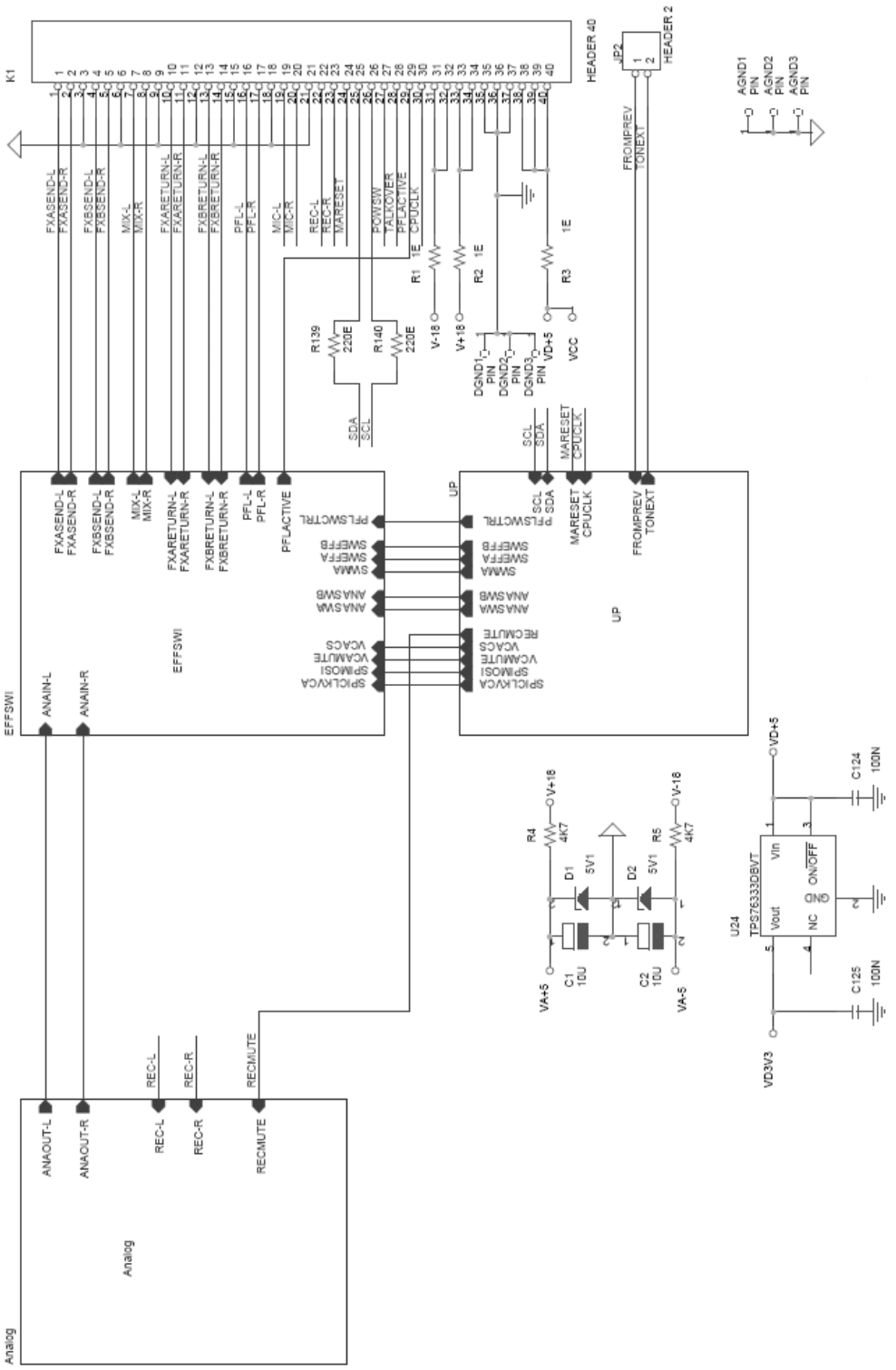
Pin 01 -> +32V
Pin 02 -> +18V
Pin 03 -> GND
Pin 04 -> GND
Pin 05 -> -18V
Pin 06 -> -32V

8.0.0 SCHEMATIC DIAGRAMS

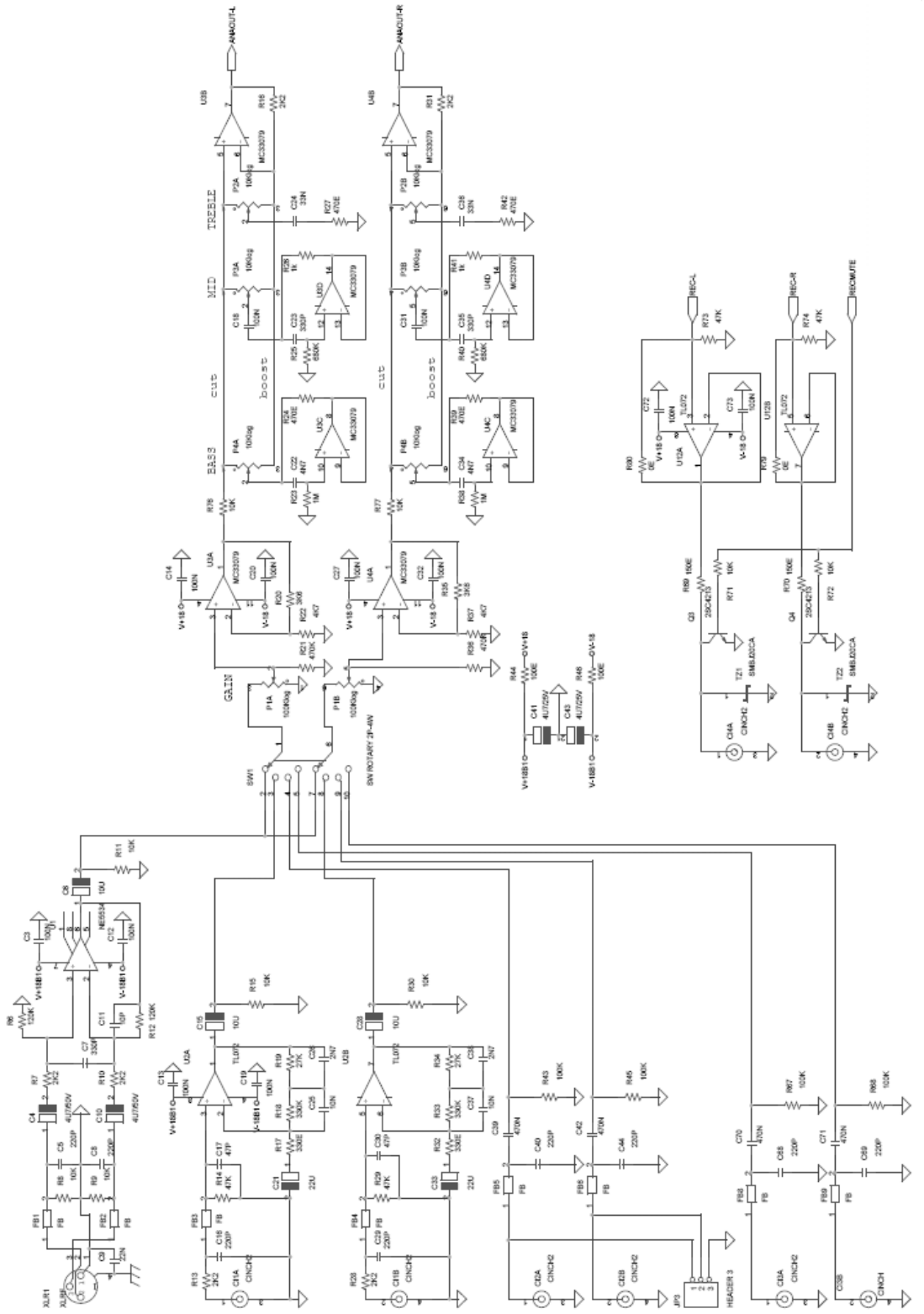
8.1.0. 68 002 0043 DIGITAL OUTPUT UNIT S/P DIF V2



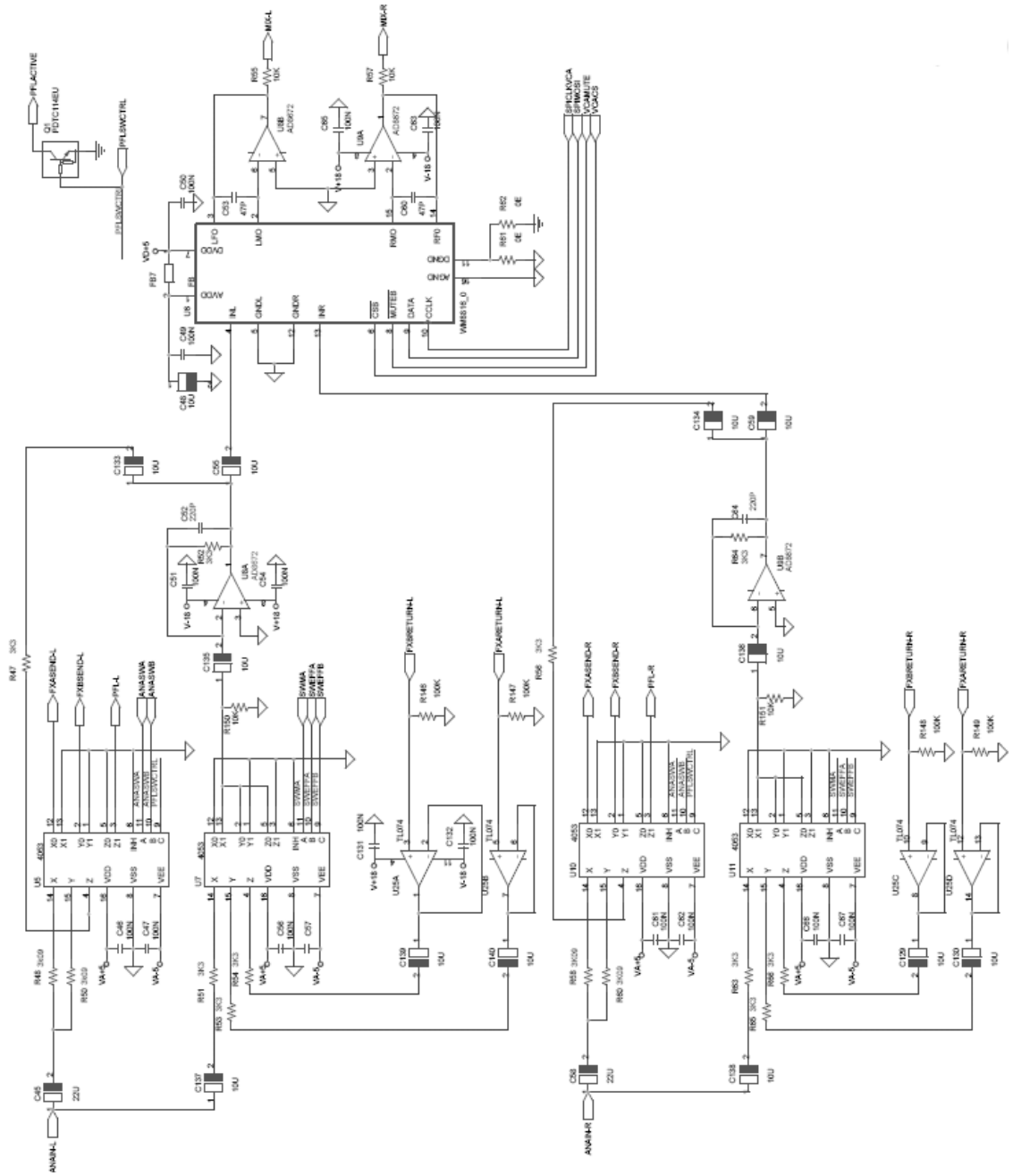
8.2.0. 68 001 0047 ANALOG INPUT UNIT MX00 - MAIN



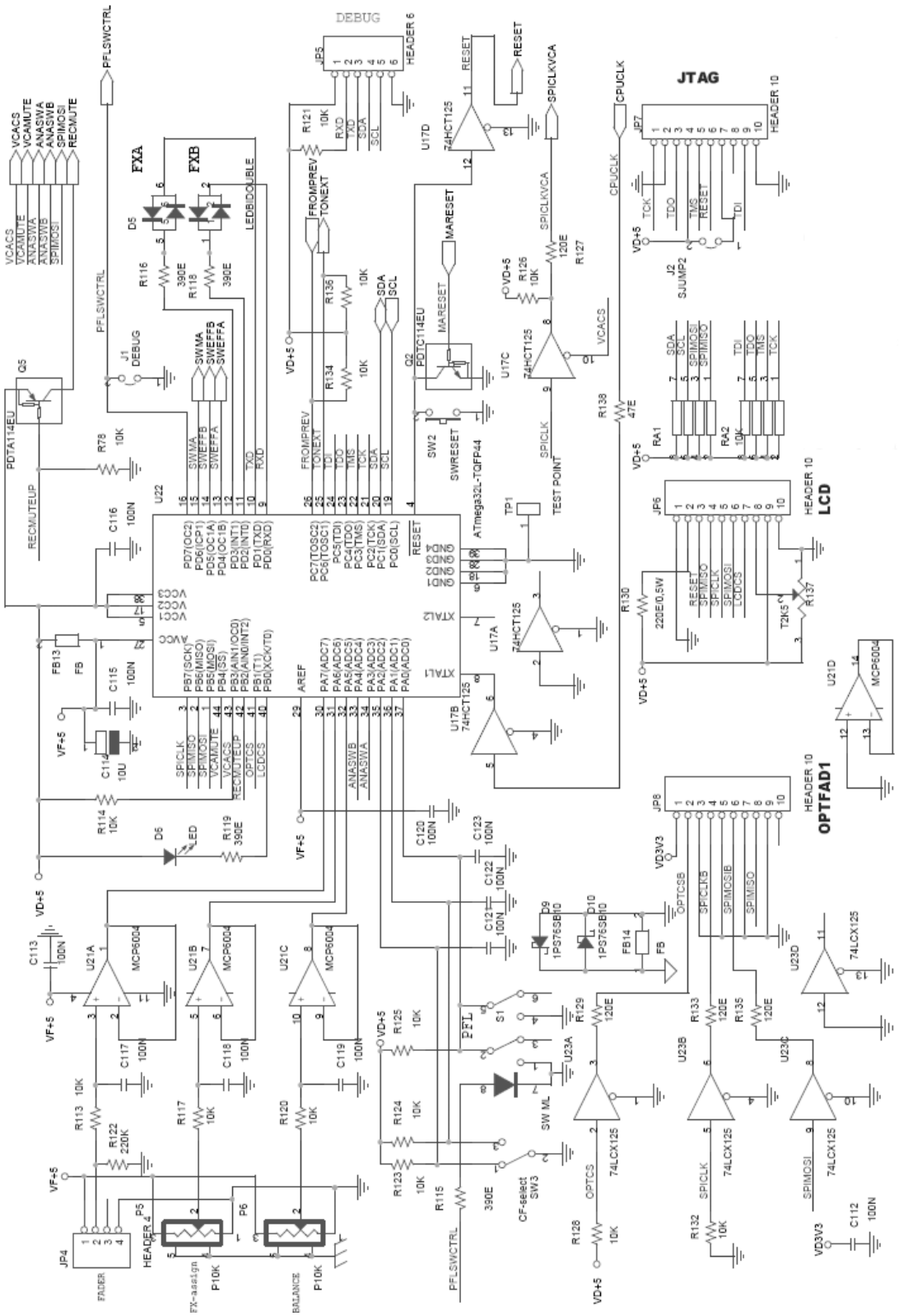
8.3.0. 68 001 0047 ANALOG INPUT UNIT MX00 – ANALOG PART



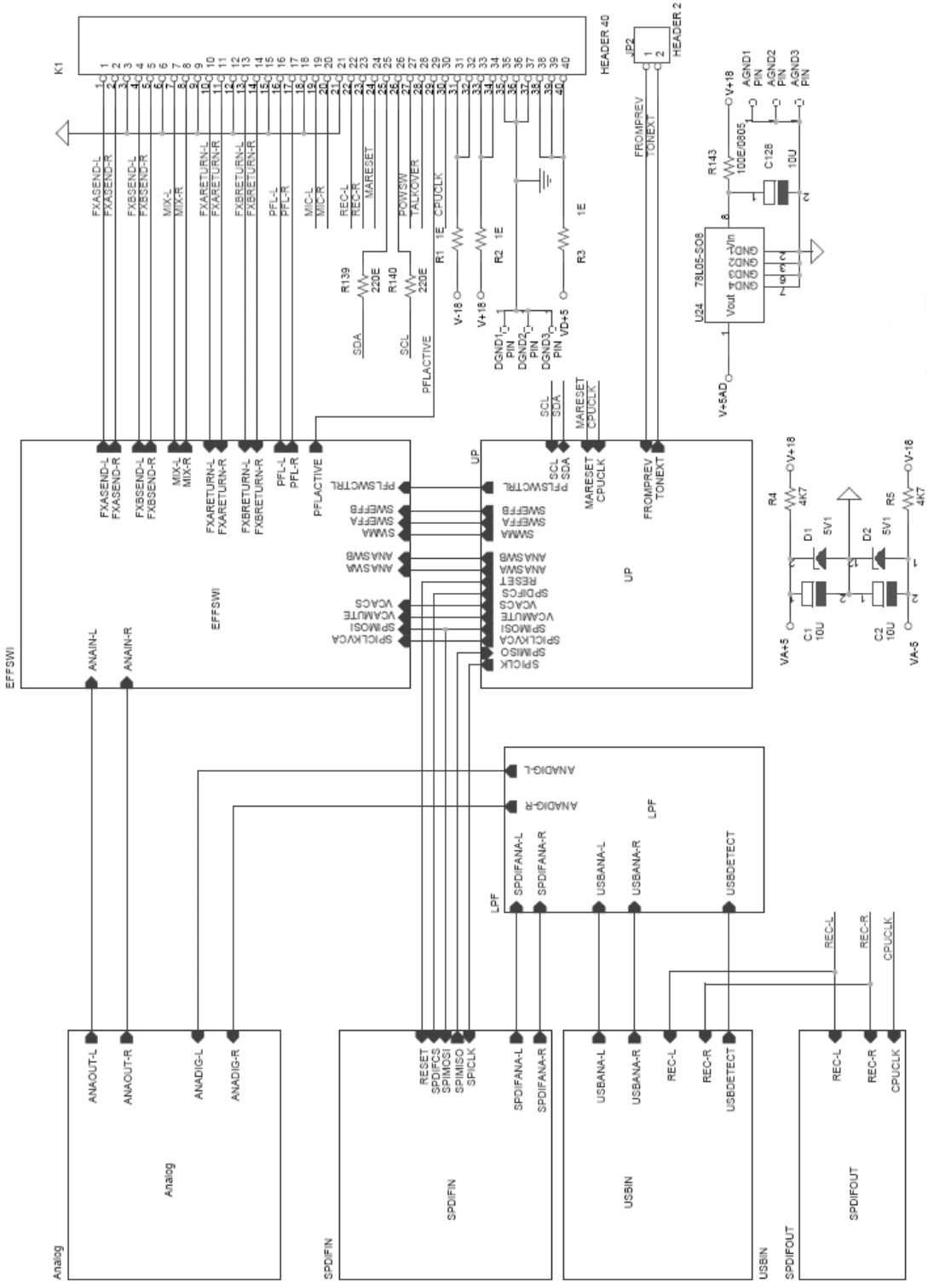
8.4.0. 68 001 0047 ANALOG INPUT UNIT MX00 – EFFECTS PART



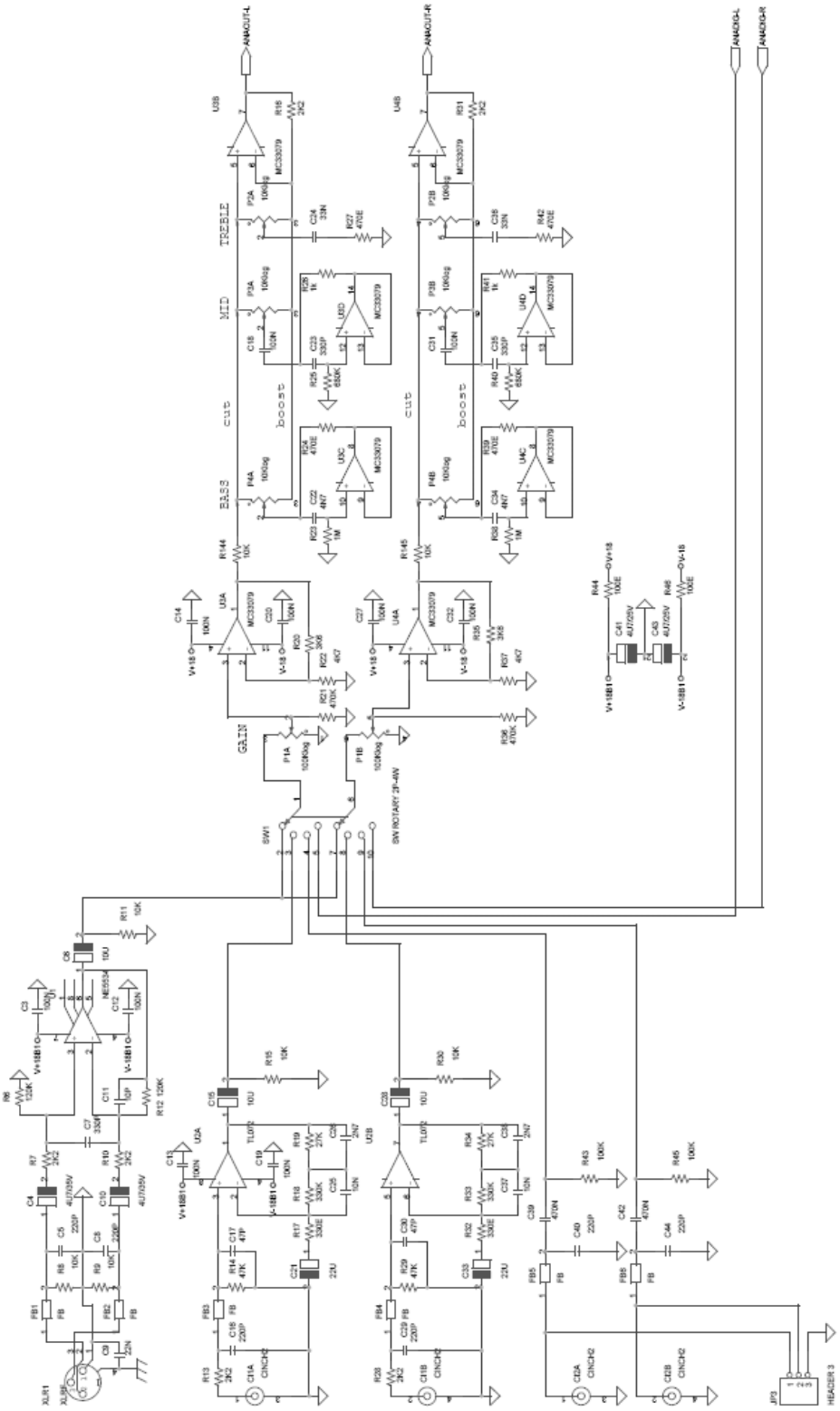
8.5.0. 68 001 0047 ANALOG INPUT UNIT MX00 – MICROCONTROLLER PART



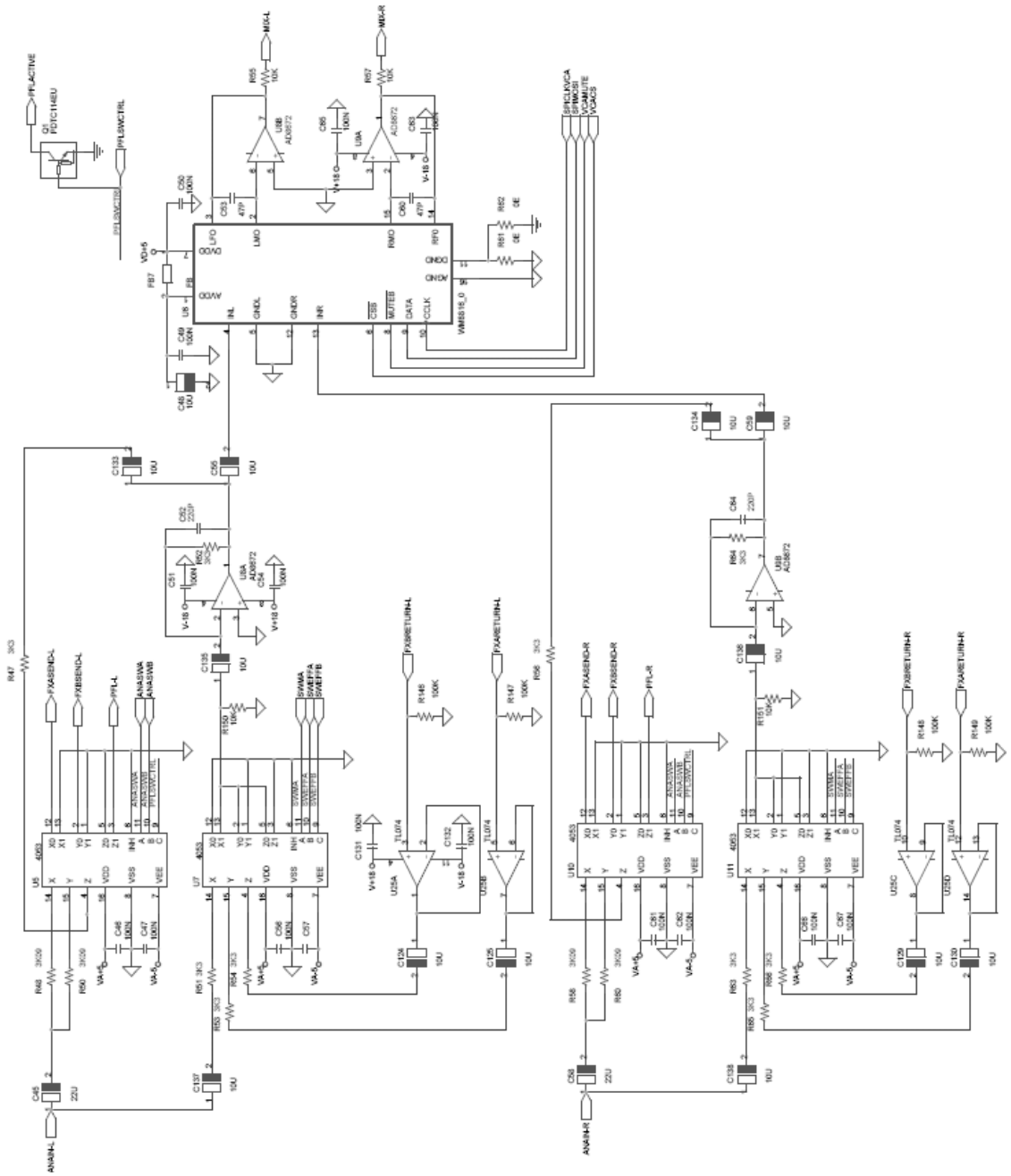
8.6.0. 68 001 0048 DIGITAL INPUT UNIT MX00 – MAIN



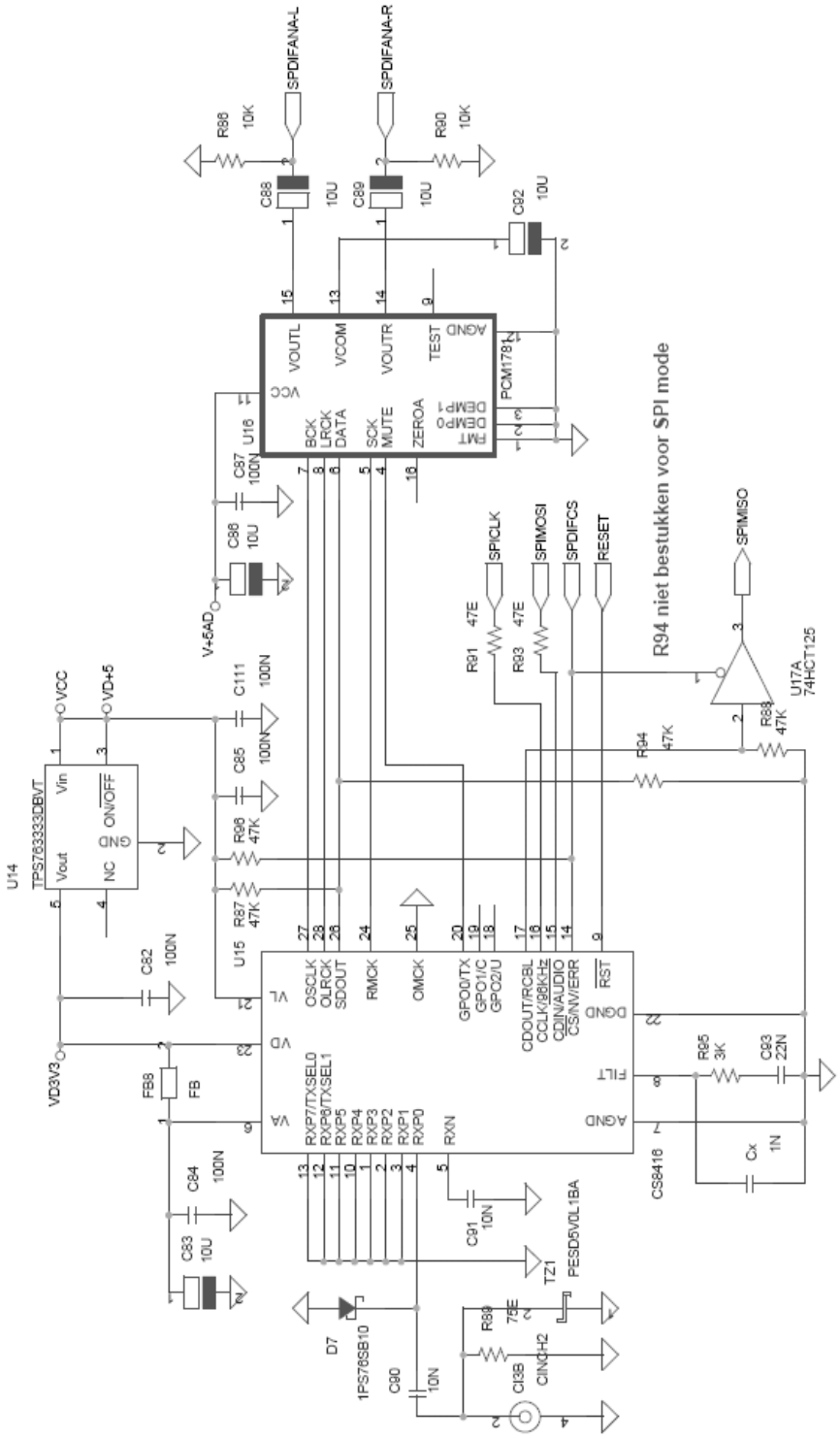
8.7.0. 68 001 0048 DIGITAL INPUT UNIT MX00 – ANALOG PART



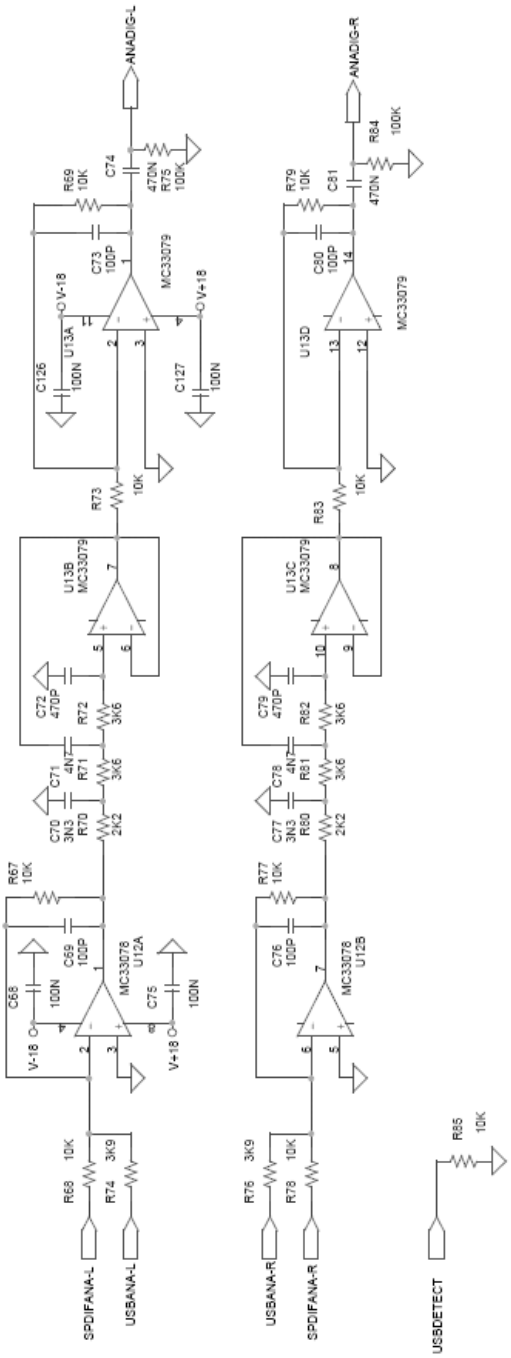
8.8.0. 68 001 0048 DIGITAL INPUT UNIT MX00 – EFFECTS PART



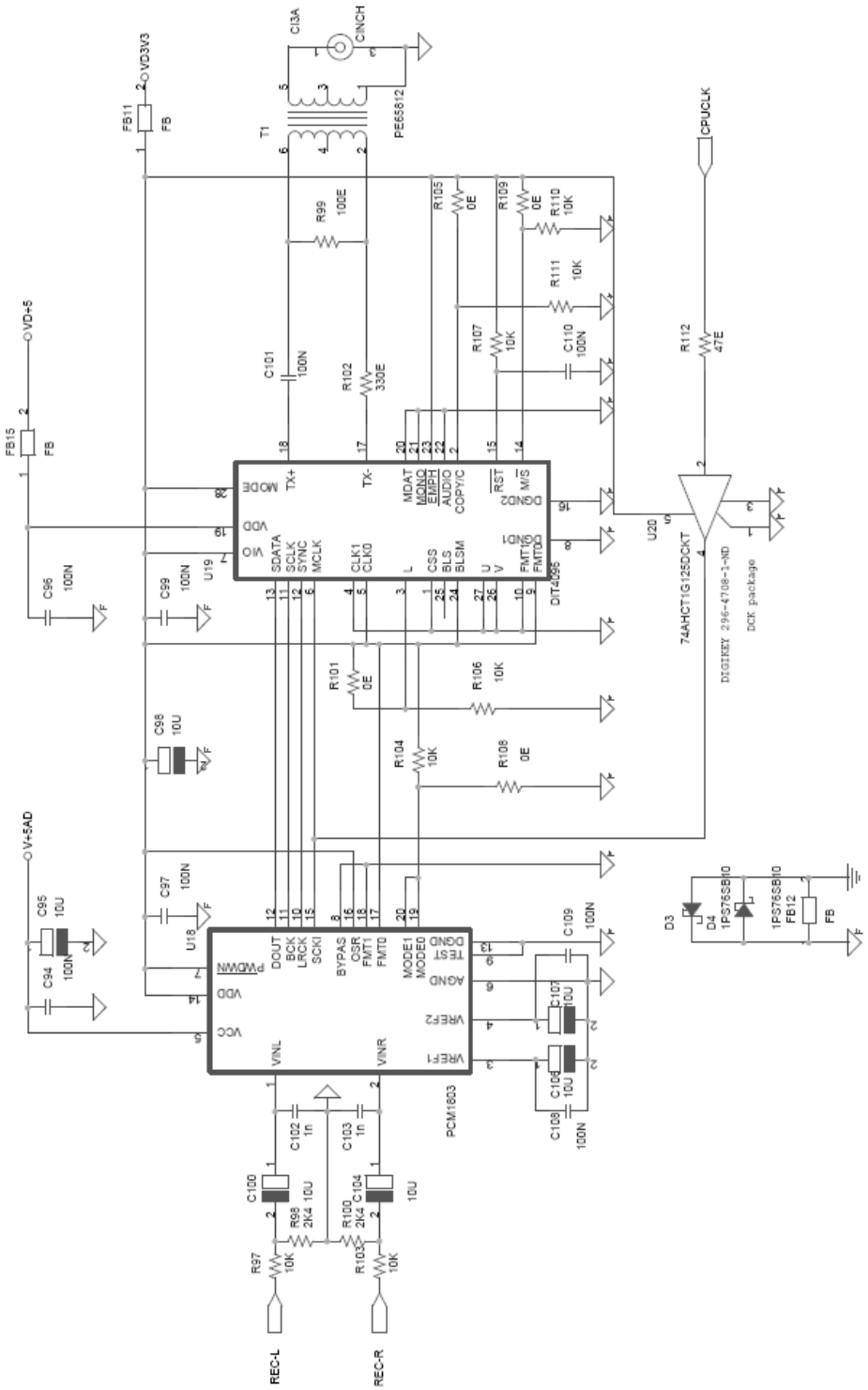
8.9.0. 68 001 0048 DIGITAL INPUT UNIT MX00 – S/P DIF IN



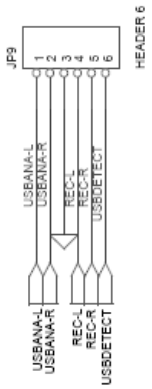
8.10.0. 68 001 0048 DIGITAL INPUT UNIT MX00 – LOW PASS FILTER



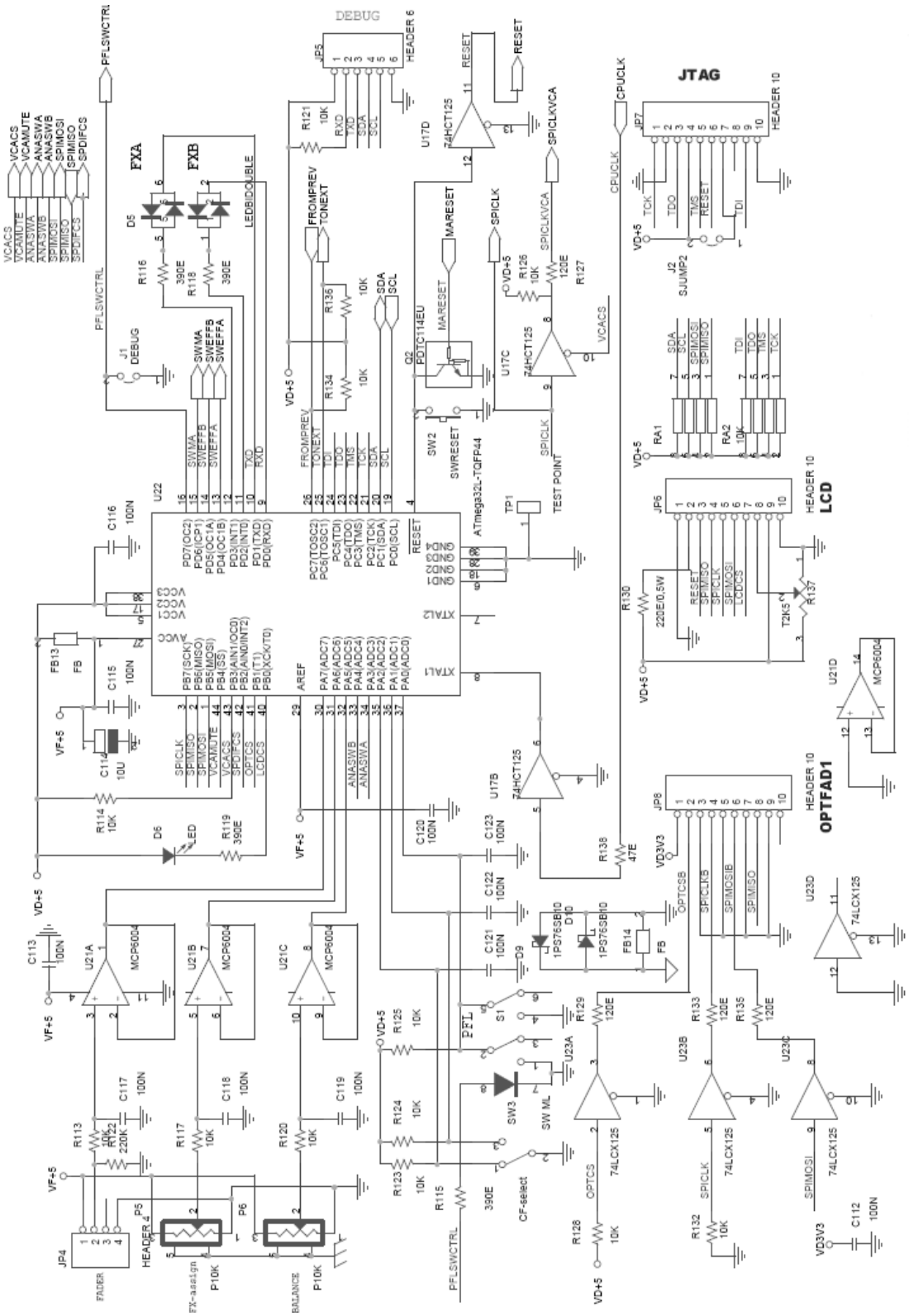
8.11.0. 68 001 0048 DIGITAL INPUT UNIT MX00 – S/P DIF OUT



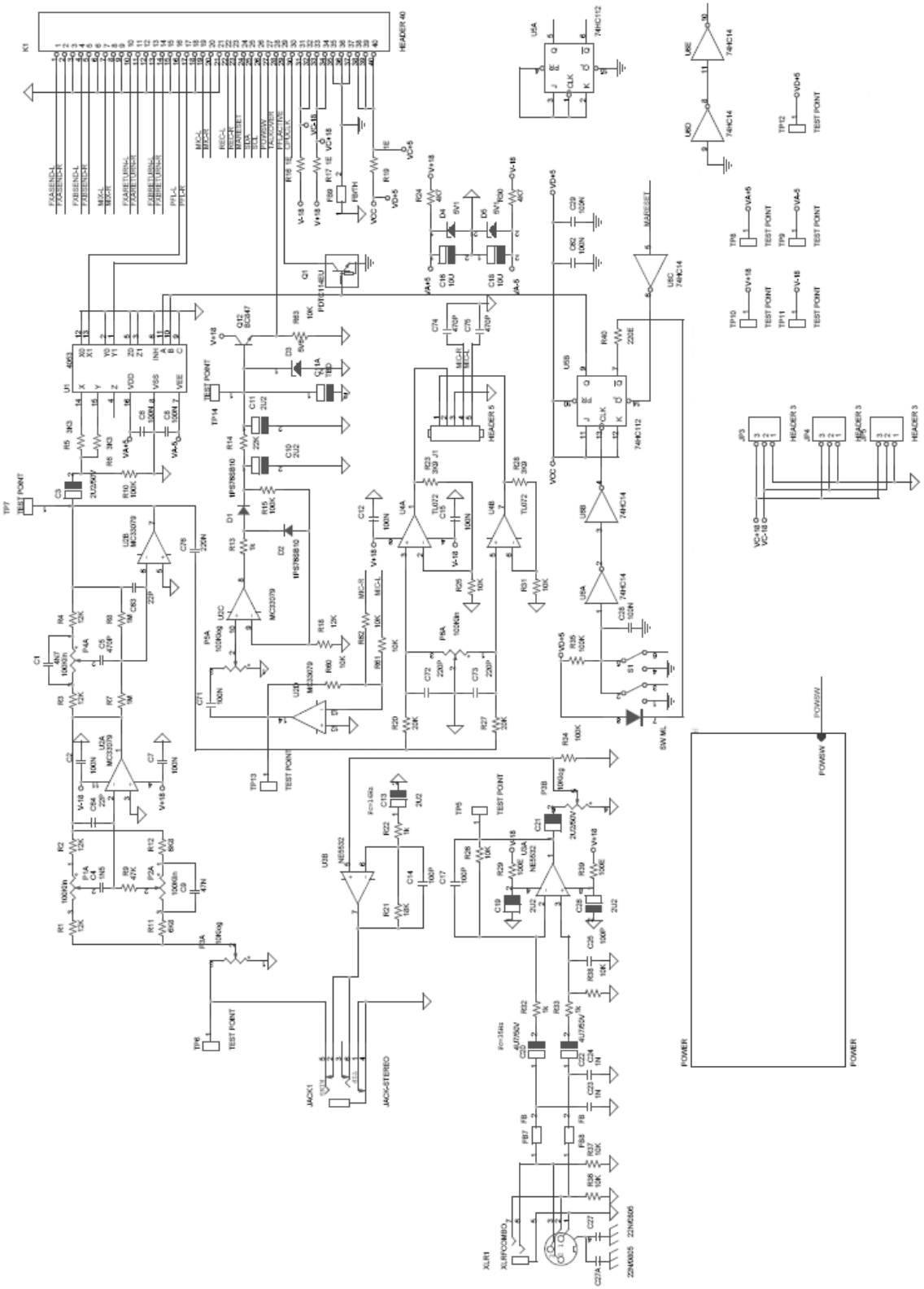
8.12.0. 68 001 0048 DIGITAL INPUT UNIT MX00 – USB IN



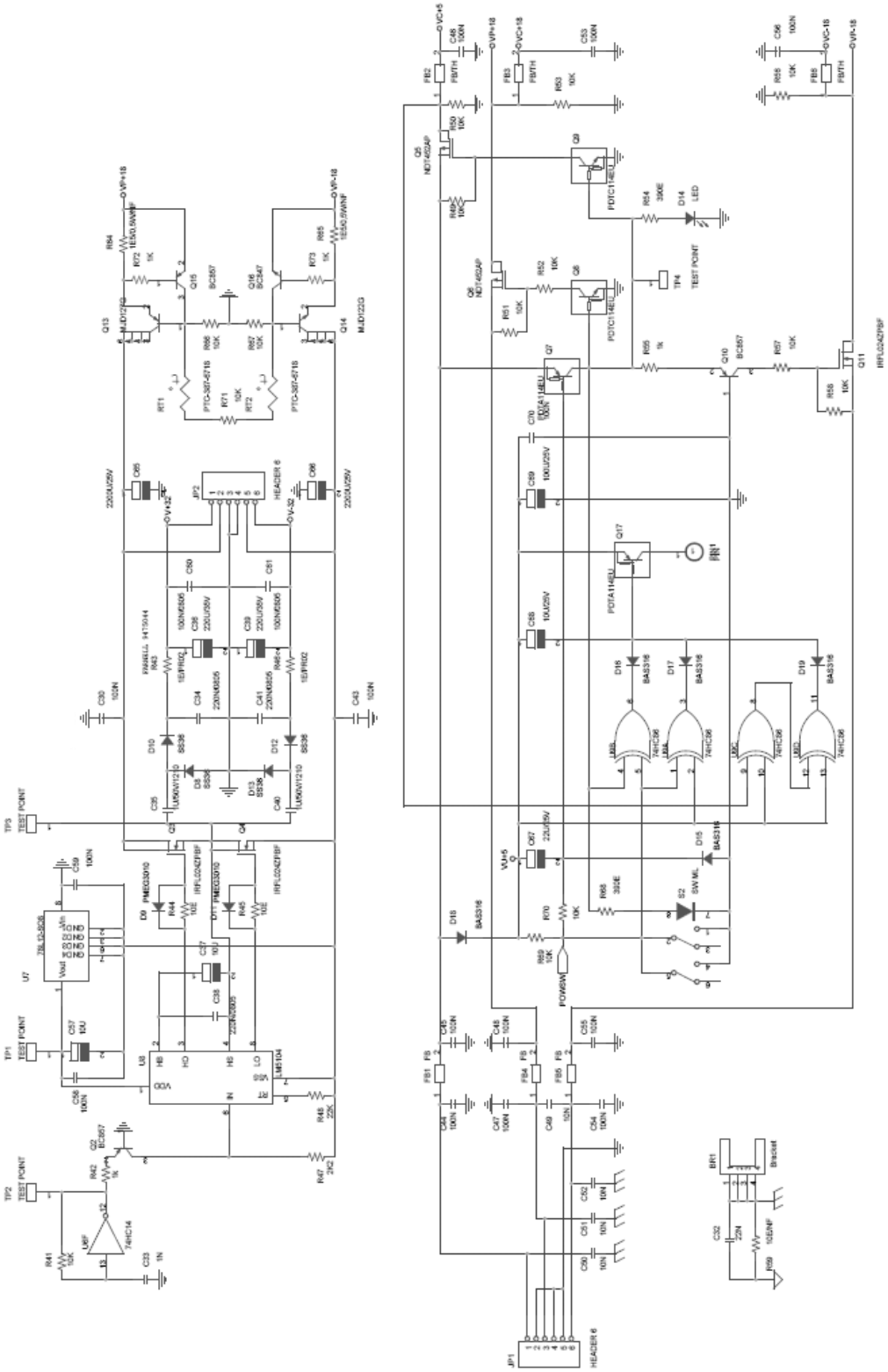
8.13.0. 68 001 0048 DIGITAL INPUT UNIT MX00 – MICROCONTROLLER PART



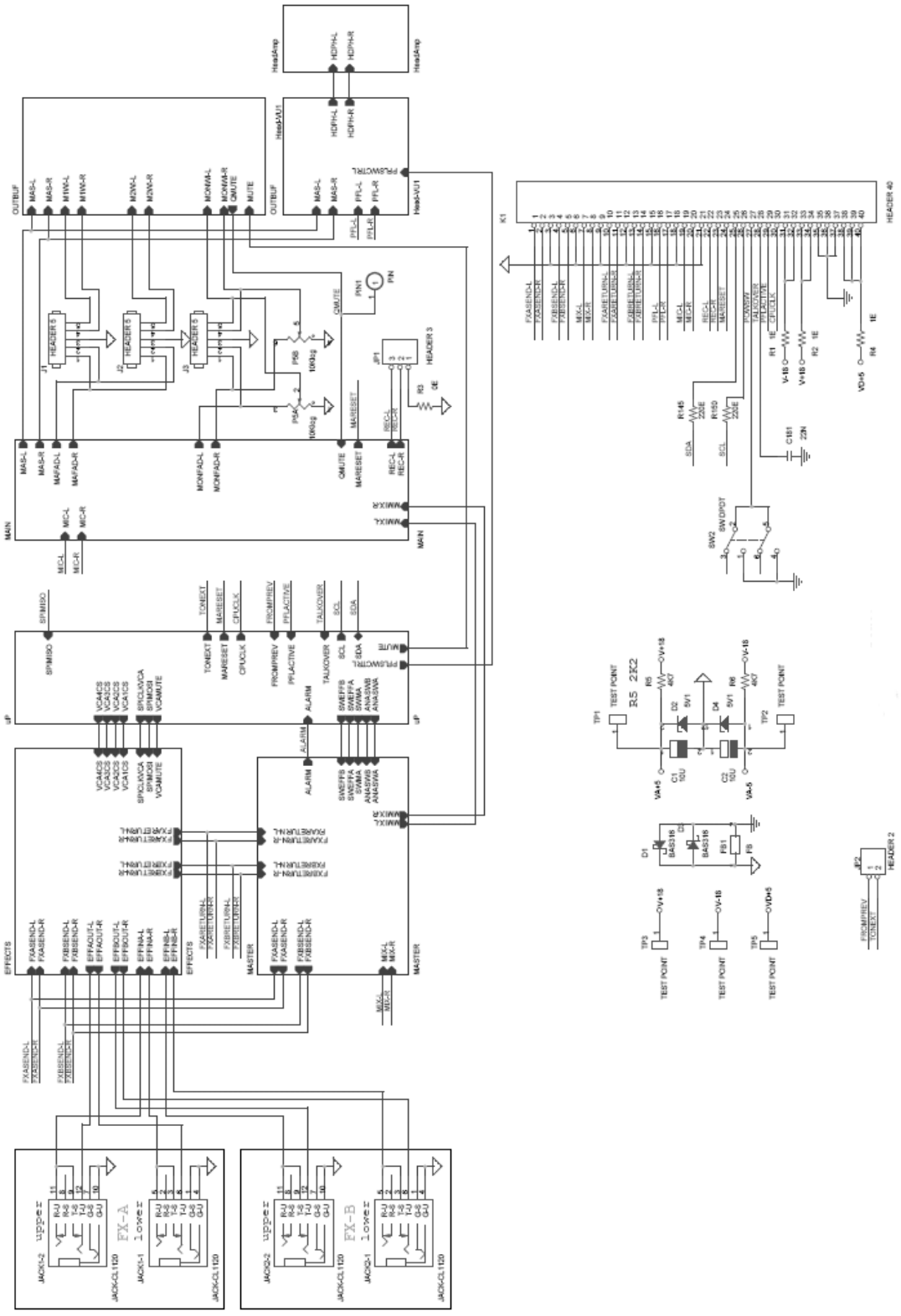
8.14.0. 68 001 0049 DJ MICROPHONE INPUT UNIT MX00 – MAIN



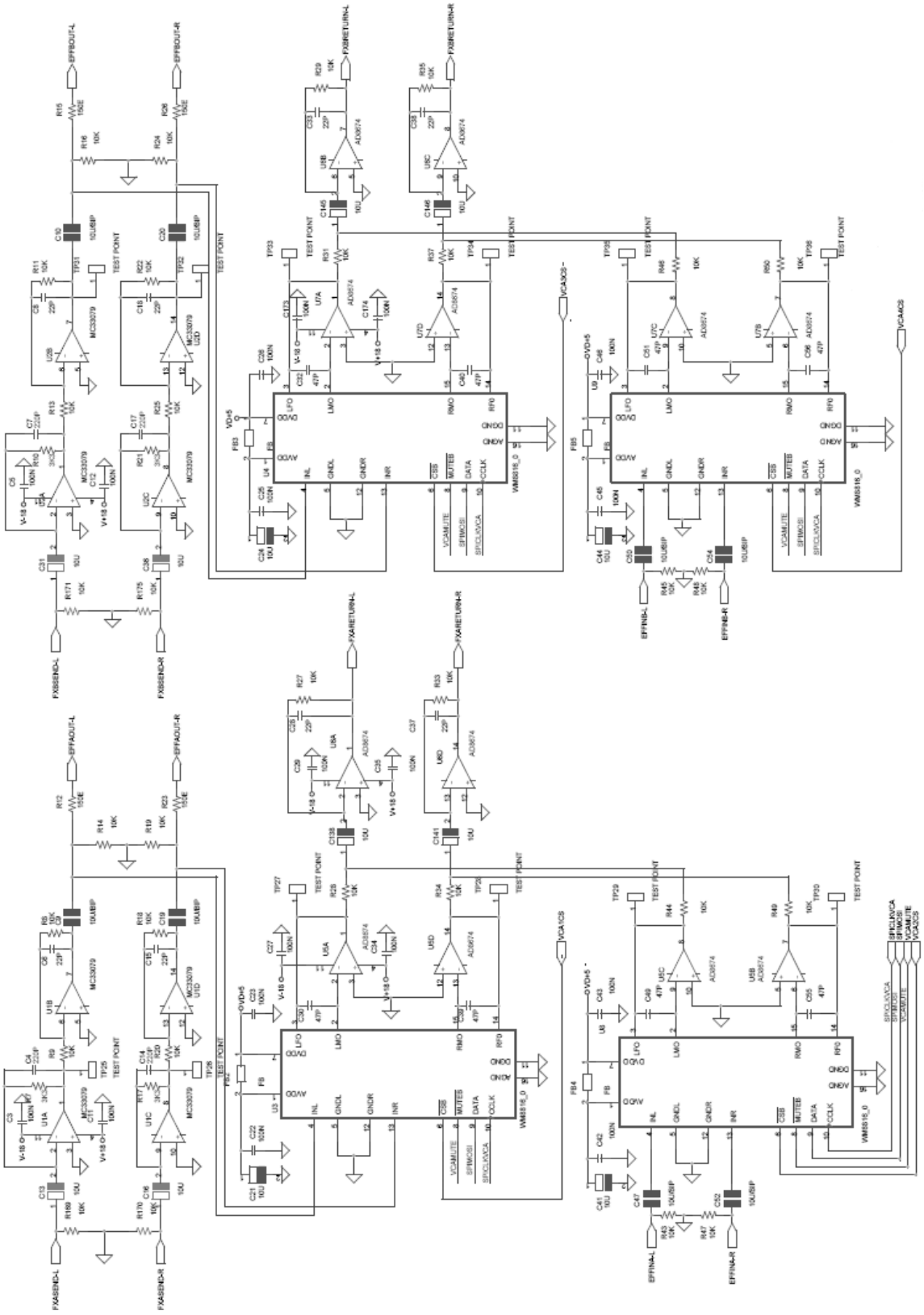
8.15.0. 68 001 0049 DJ MICROPHONE INPUT UNIT MX00 – POWER



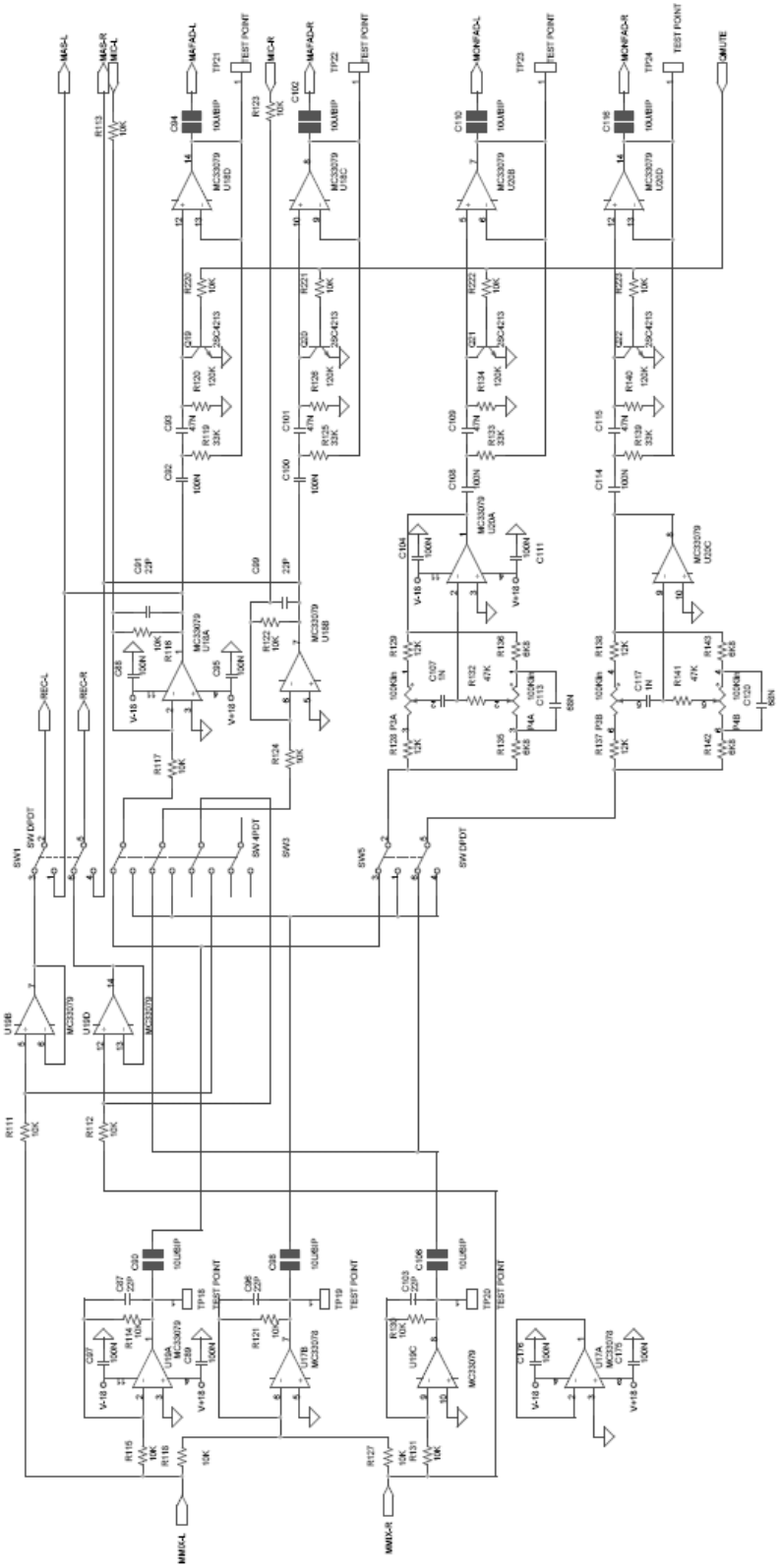
8.16.0. 68 001 0050 OUTPUT UNIT MX1400/MX1800/MX2200/MX3000 – MAIN



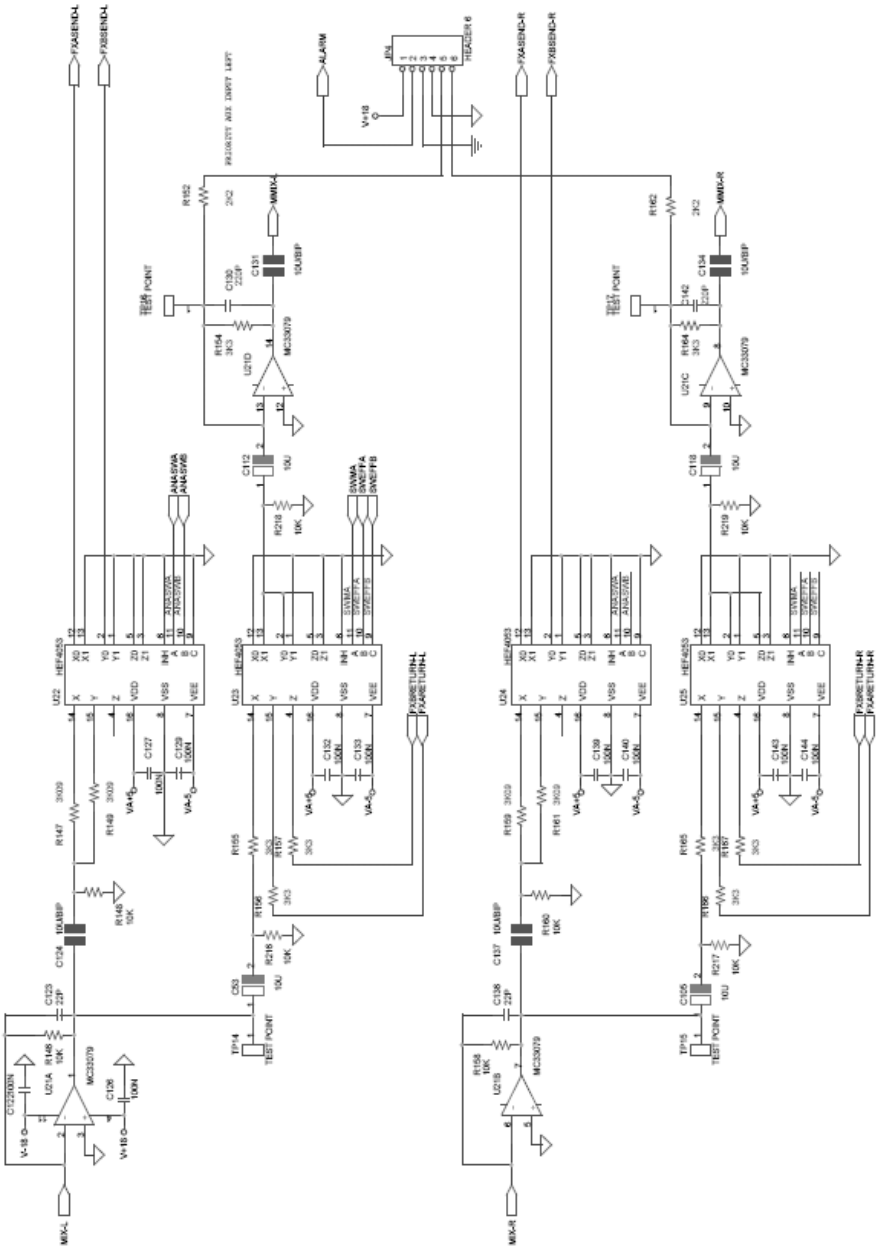
8.17.0. 68 001 0050 OUTPUT UNIT MX1400/MX1800/MX2200/MX3000 – EFFECTS PART



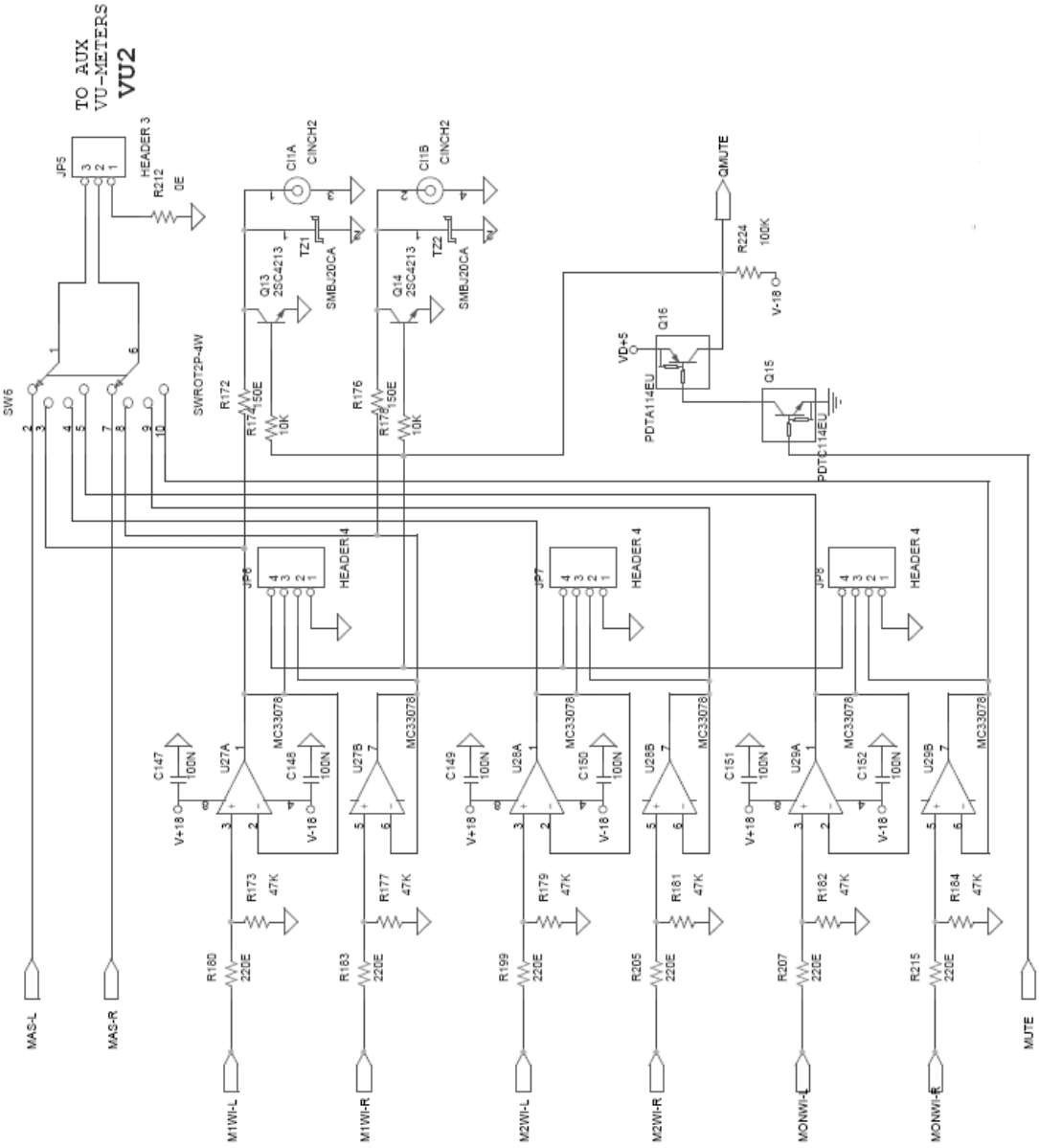
8.18.0. 68 001 0050 OUTPUT UNIT MX1400/MX1800/MX2200/MX3000 – MAIN MIX



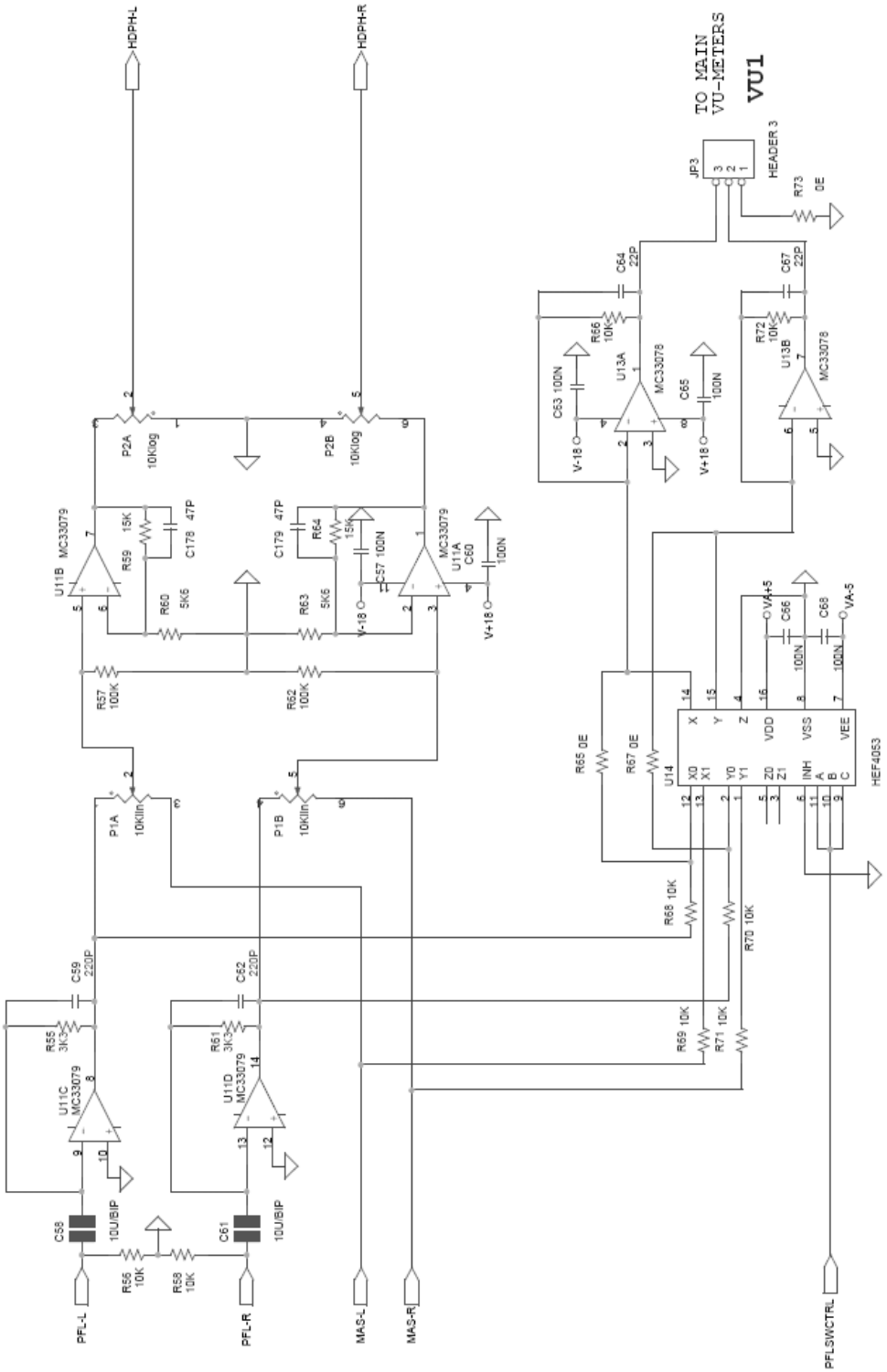
8.19.0. 68 001 0050 OUTPUT UNIT MX1400/MX1800/MX2200/MX3000 – MASTER EFFECTS PART



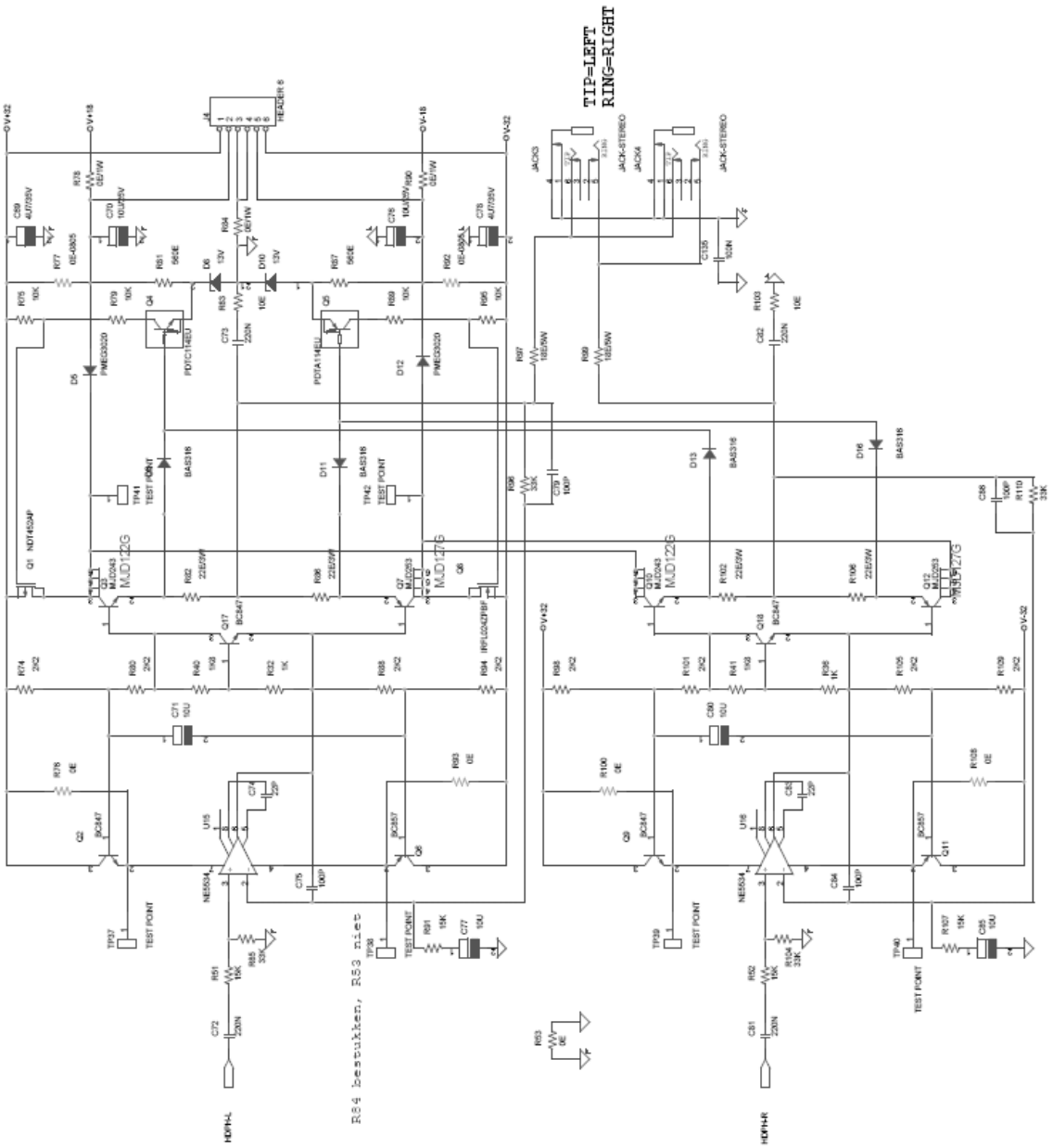
8.20.0. 68 001 0050 OUTPUT UNIT MX1400/MX1800/MX2200/MX3000 – OUTPUT BUFFERS



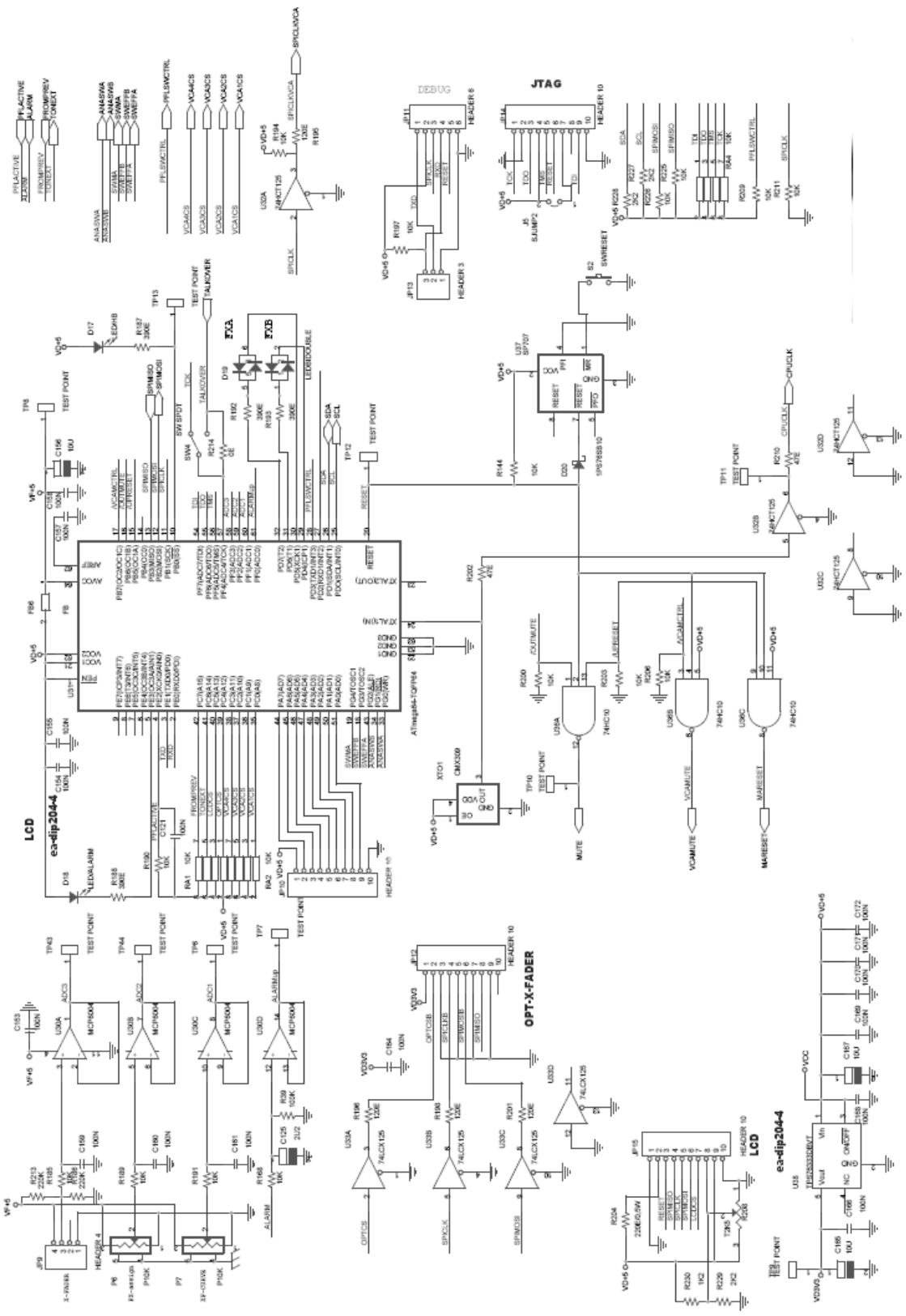
8.21.0. 68 001 0050 OUTPUT UNIT MX1400/MX1800/MX2200/MX3000 – HEADPHONE VU PART



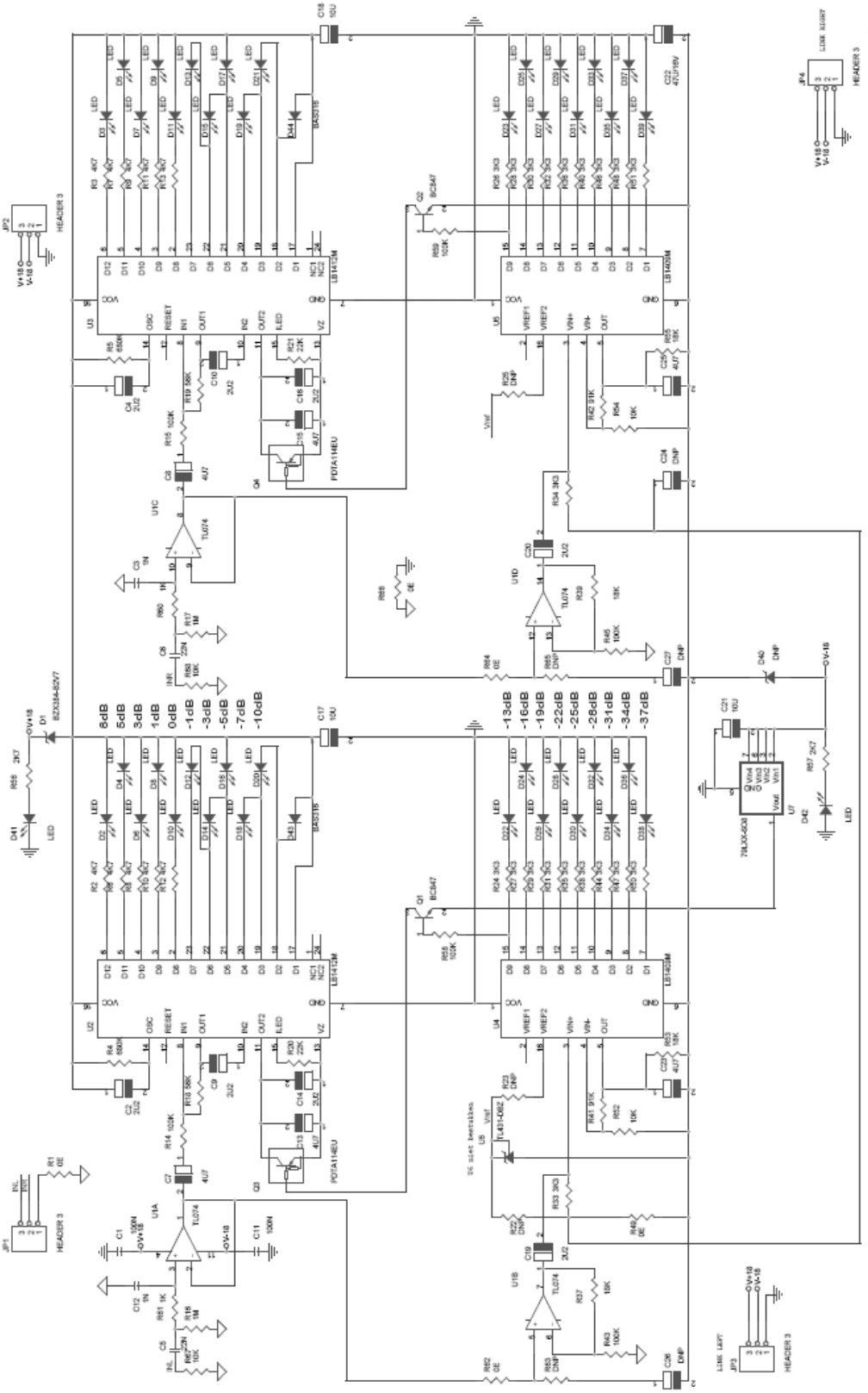
8.22.0. 68 001 0050 OUTPUT UNIT MX1400/MX1800/MX2200/MX3000 – HEADPHONES AMPLIFIER



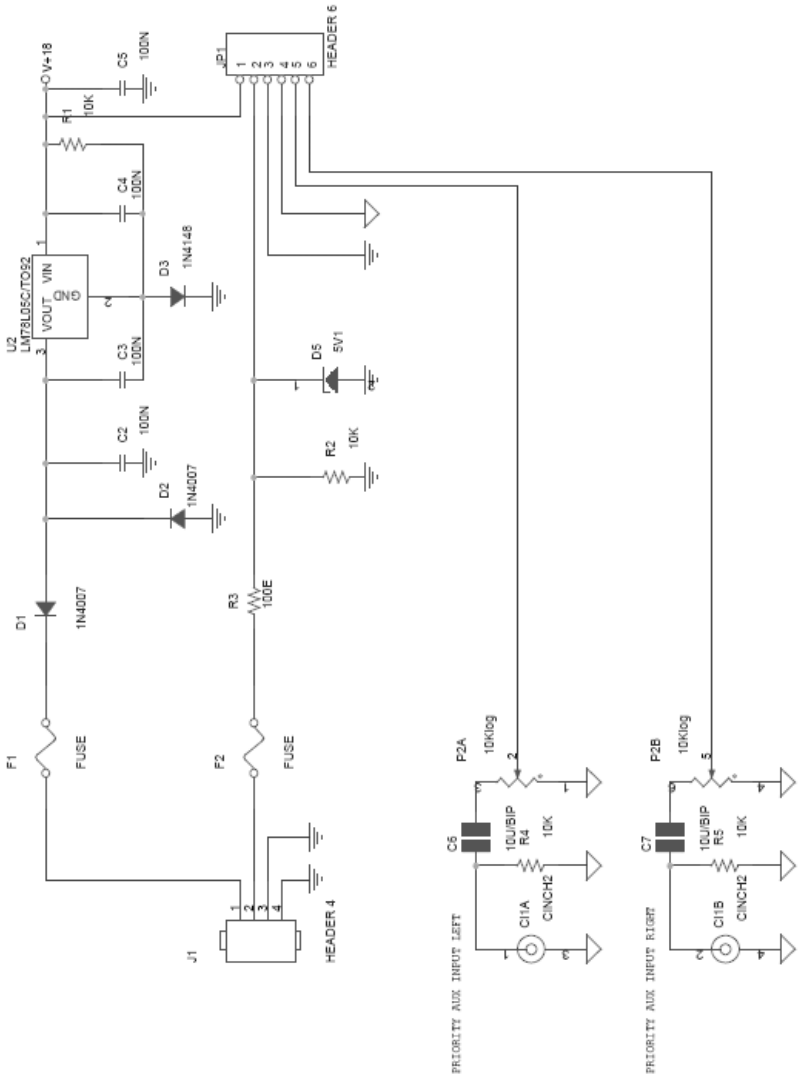
8.23.0. 68 001 0050 OUTPUT UNIT MX1400/MX1800/MX2200/MX3000 – MICROCONTROLLER PART



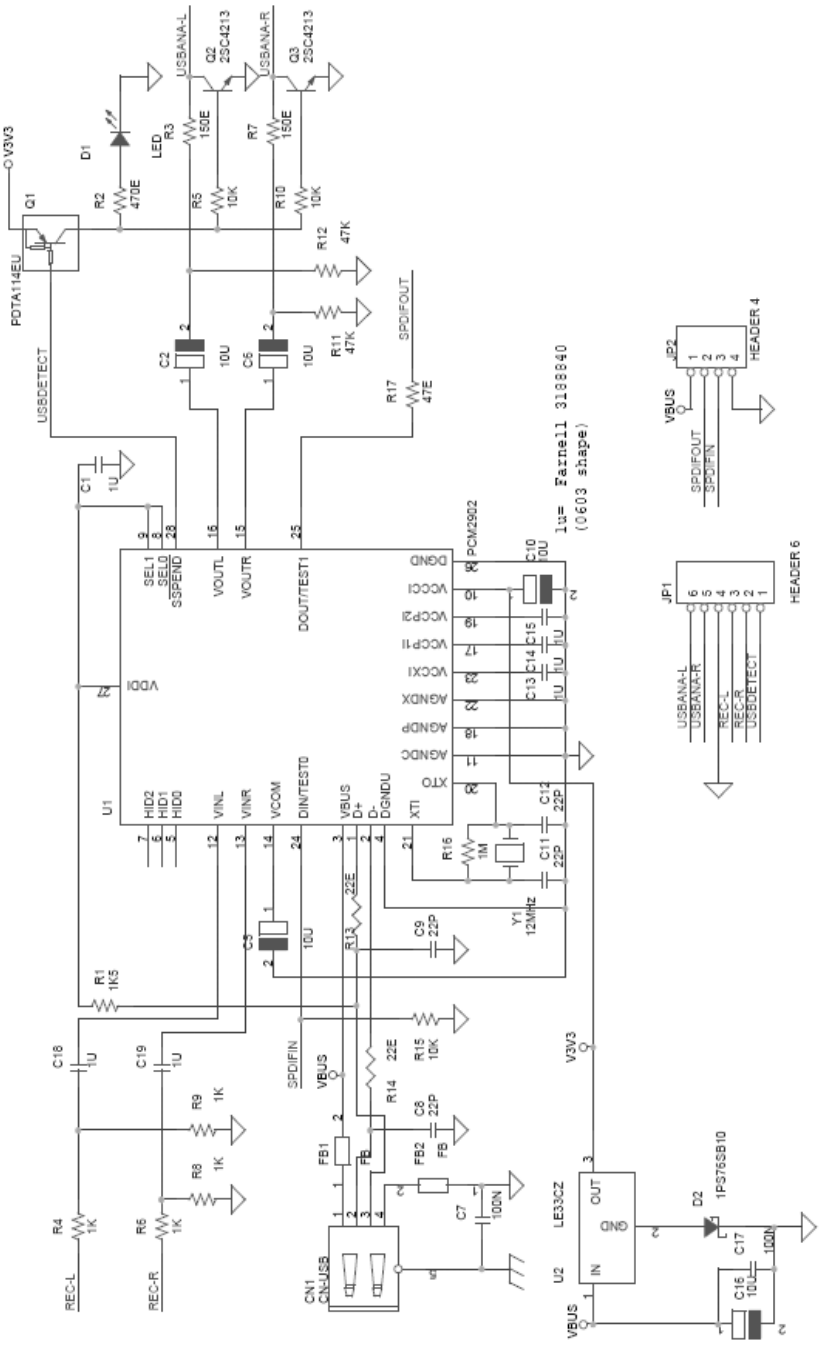
8.24.0. 68 001 0051 LED VU SINGLE UNIT MX00



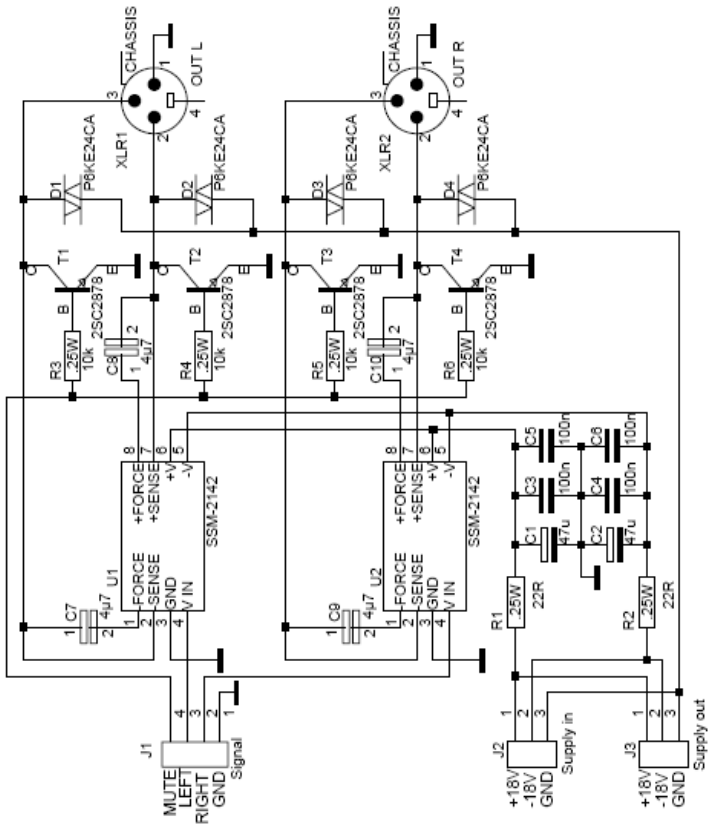
8.25.0. 68 001 0052 ALARM MUSIC MUTE _PRIORITY IN UNIT MX00



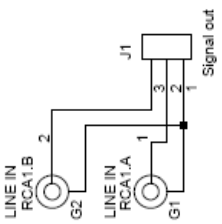
8.26.0. 68 001 0053 USB I/O UNIT MX00



8.27.0. 68 001 0054 SYMMETRICAL OUTPUT UNIT WITH MUTE MX00

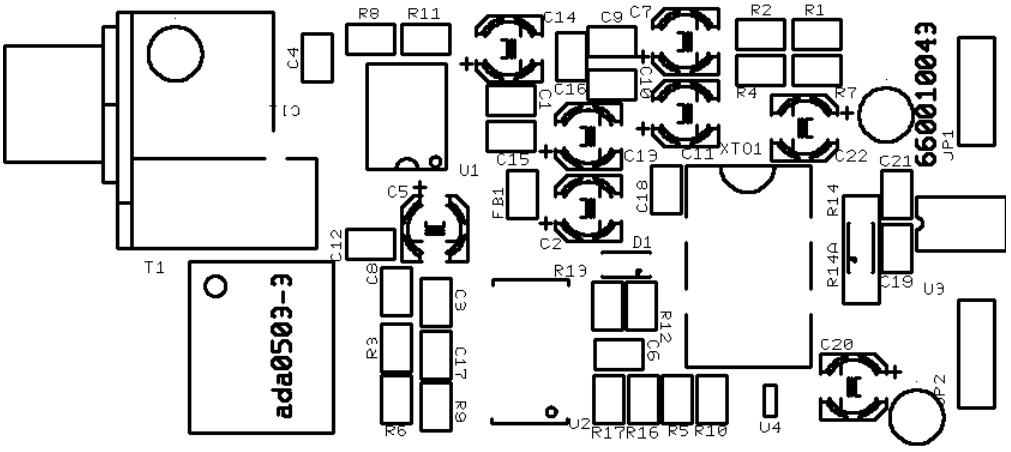


8.28.0. 68 001 0055 RCA FRONT UNIT MX3000

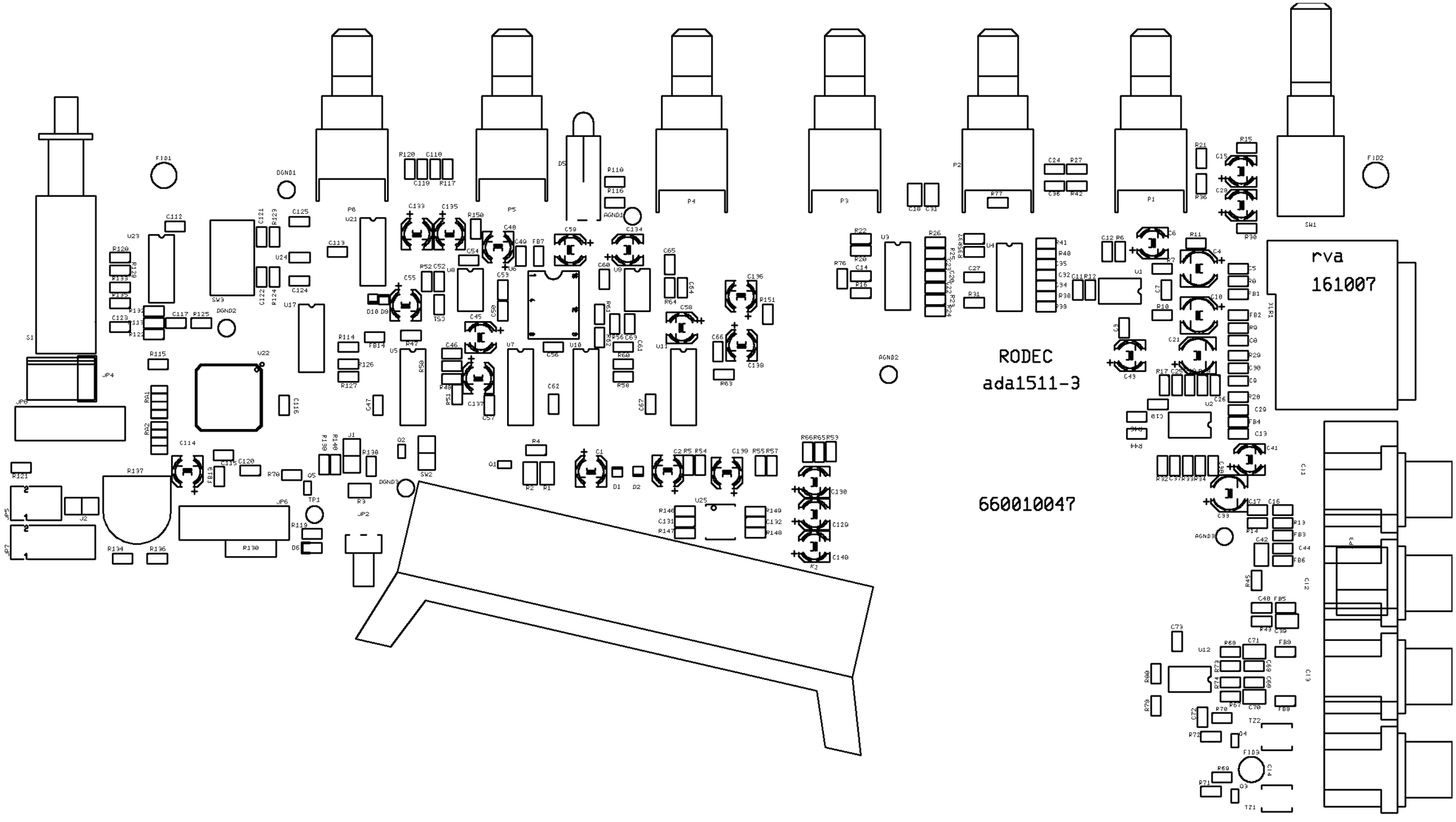


9.0.0. PCB COMPONENTS POSITION LAYOUT

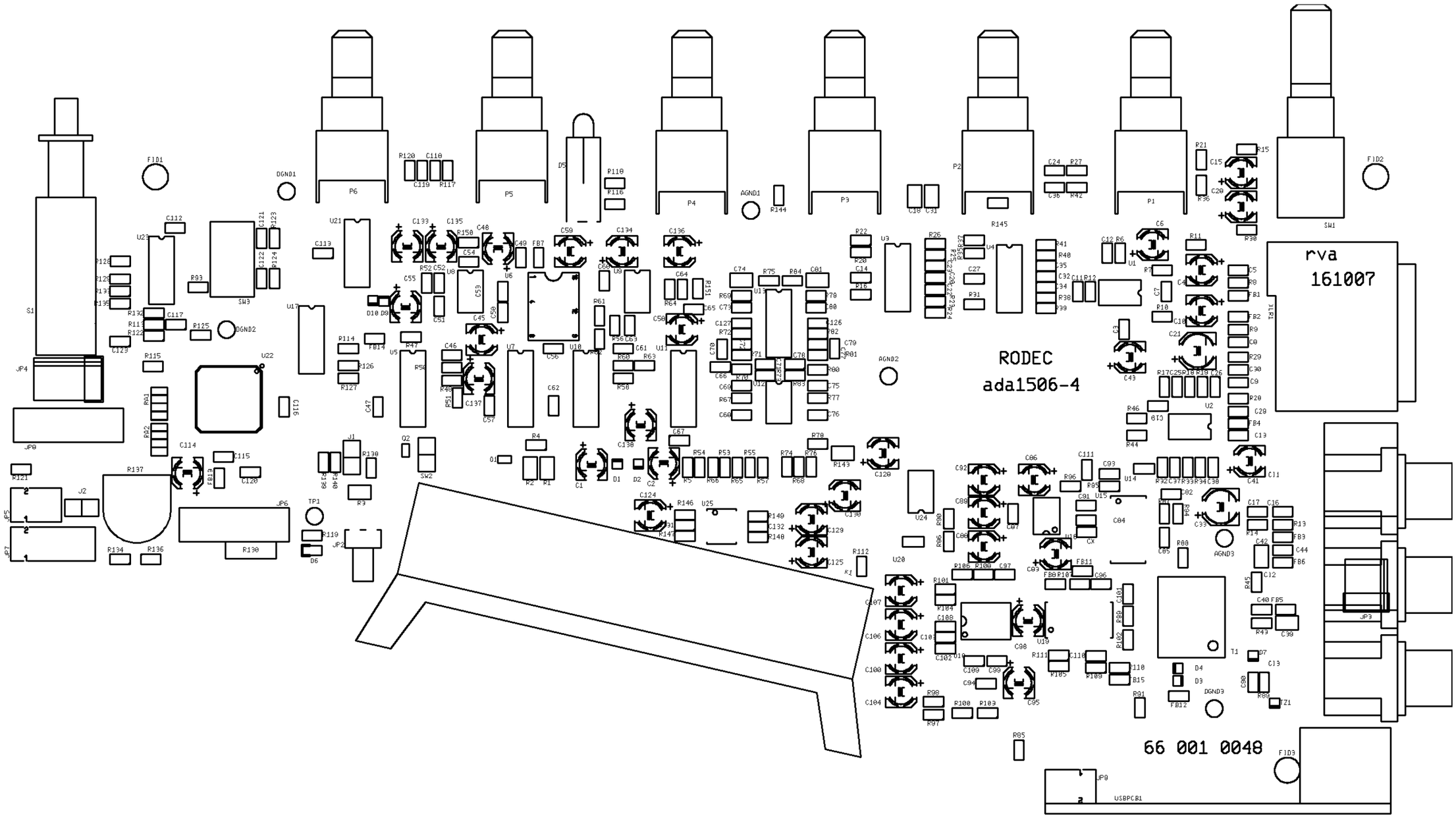
9.1.0. 66 001 0043 PRINT OUTPUT S/P DIF V2 – TOP



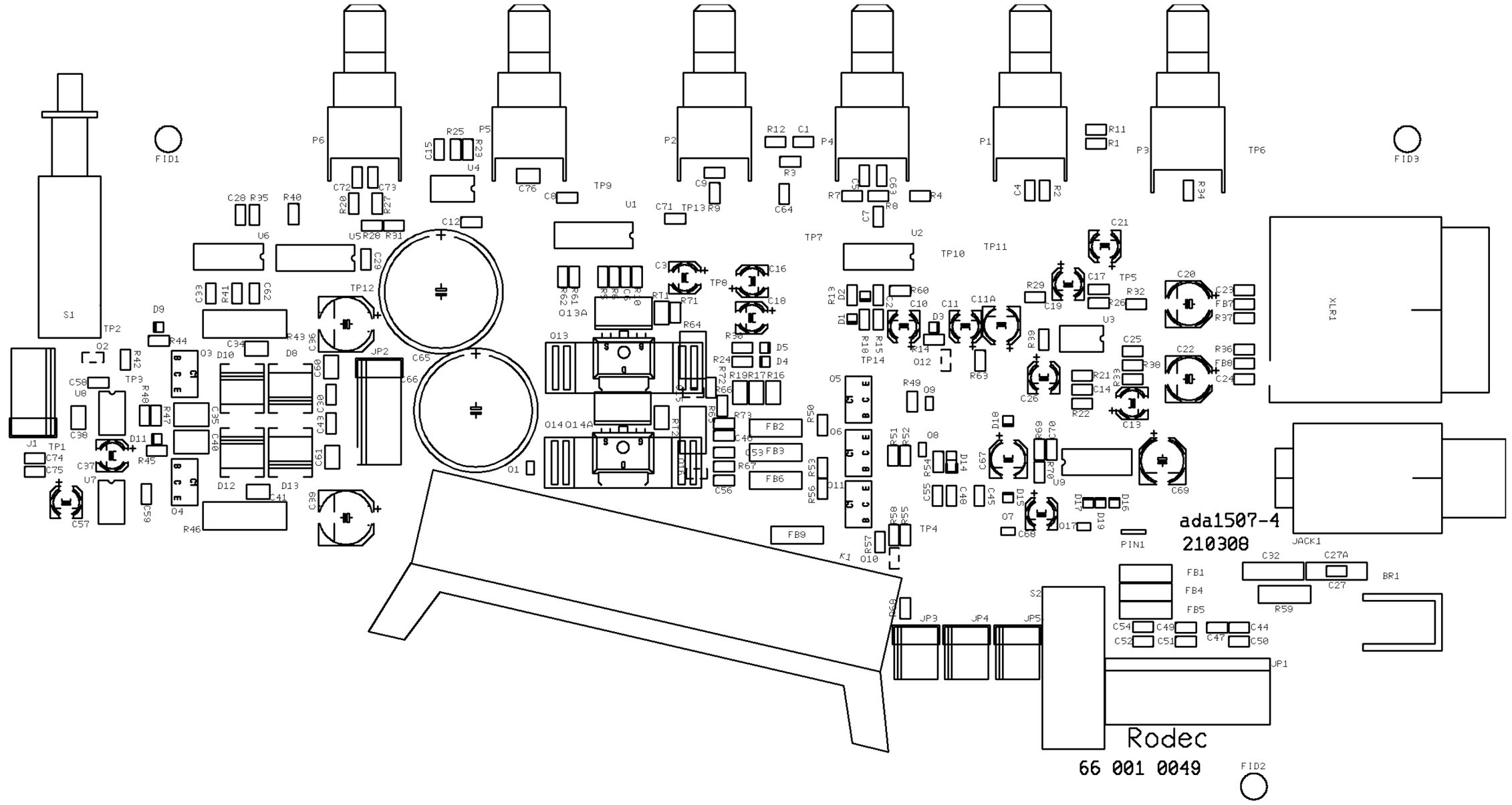
9.2.0. 66 001 0047 PRINT ANALOG INPUT MX00 – TOP



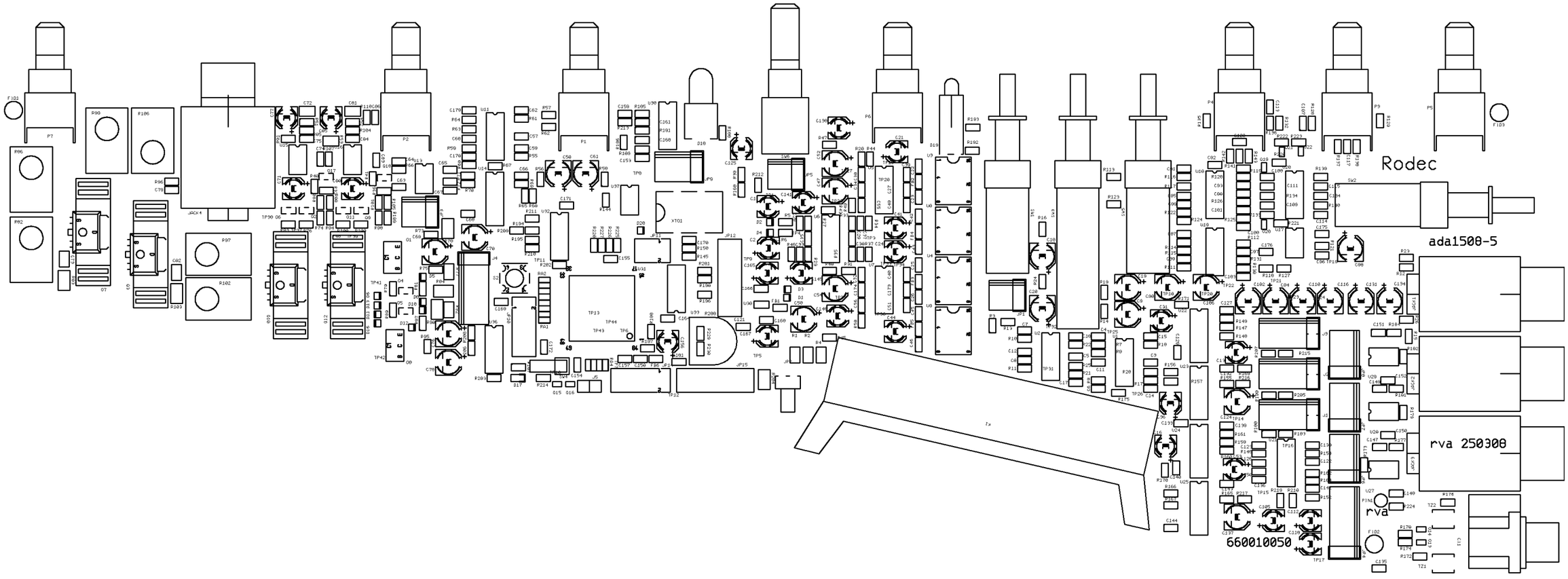
9.3.0. 66 001 0048 PRINT DIGITAL INPUT MX00 – TOP



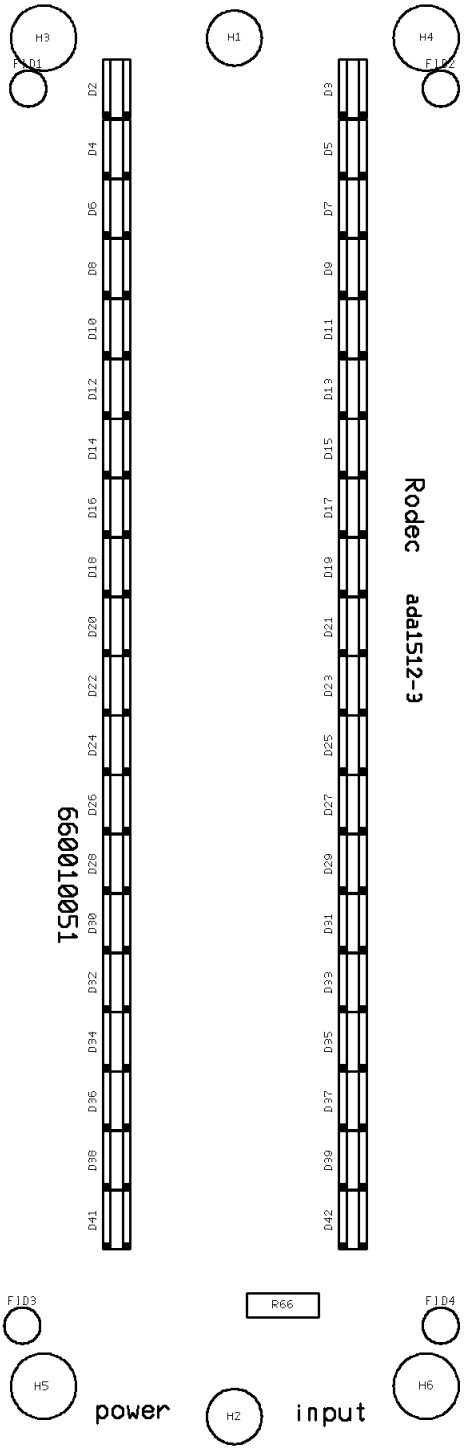
9.4.0. 66 001 0049 PRINT DJ MICROPHONE INPUT MX00 – TOP



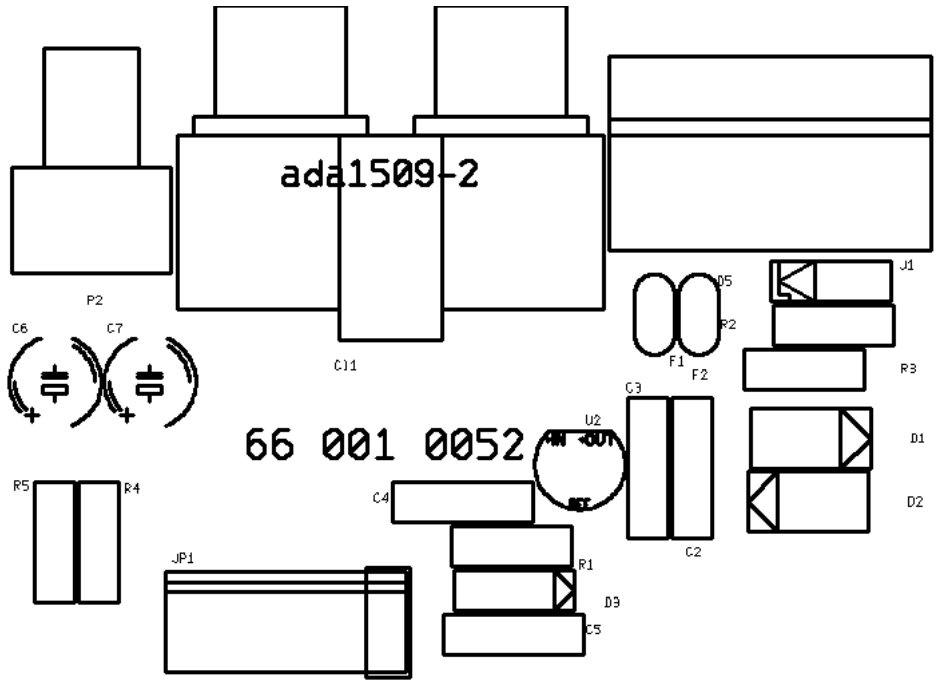
9.5.0. 66 001 0050 PRINT OUTPUT MX1400/MX1800/MX2200/MX3000 – TOP



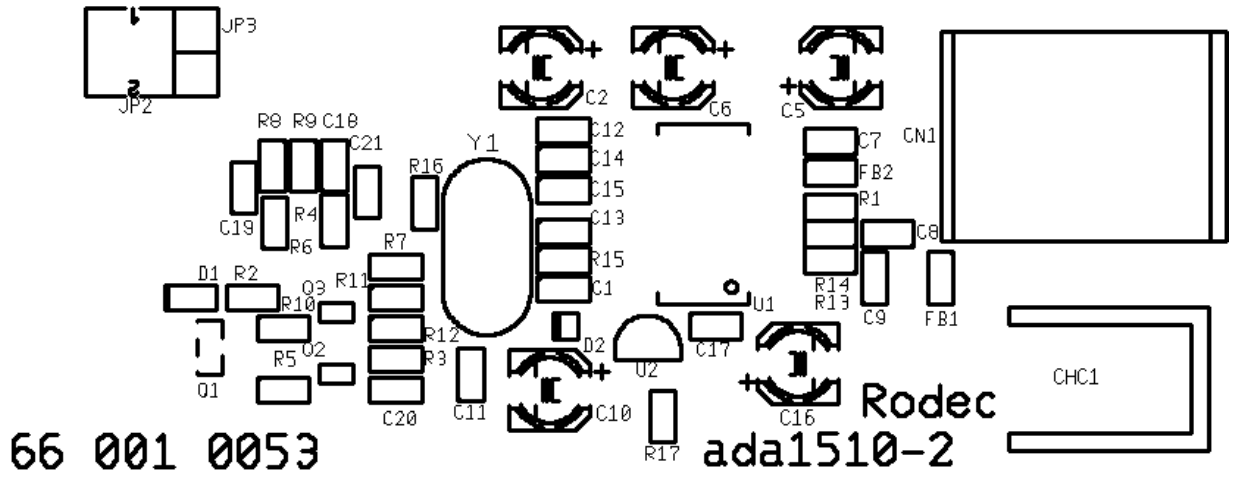
9.6.0. 66 001 0051 PRINT LED VU MX00 – TOP



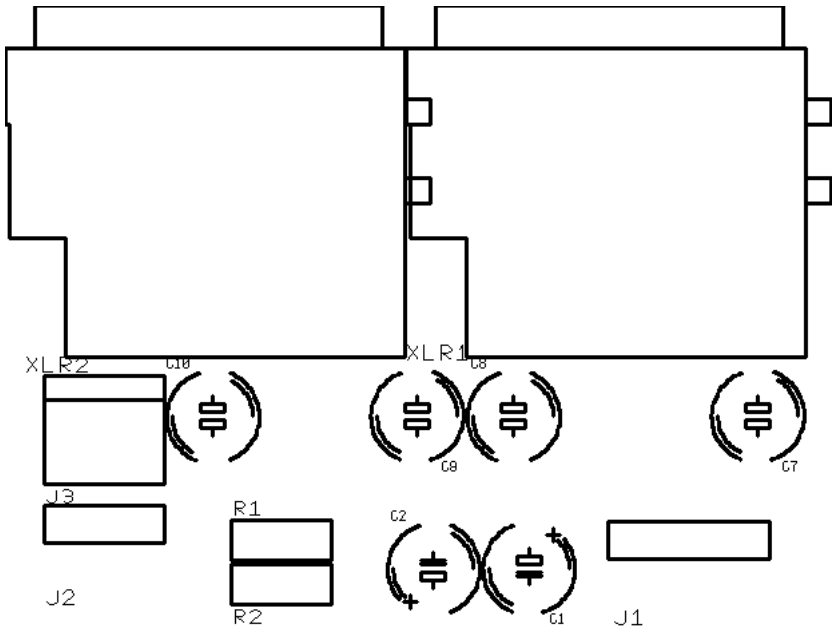
9.7.0. 66 001 0052 PRINT ALARM MUSIC MUTE_PRIORITY IN MX00 – TOP



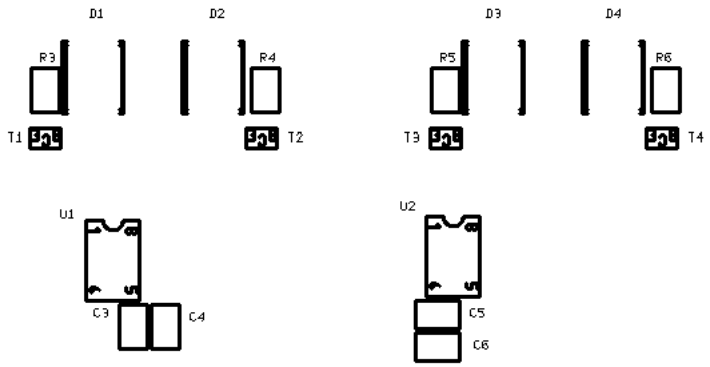
9.8.0. 66 001 0053 PRINT USB I/O MX00 – TOP



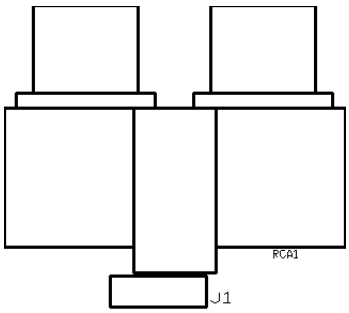
9.9.0. 66 001 0054 PRINT SYMMETRICAL OUTPUT WITH MUTE MX00 – TOP



9.10.0. 66 001 0054 PRINT SYMMETRICAL OUTPUT WITH MUTE MX00 – BOTTOM



9.11.0. 66 001 0055 PRINT RCA FRONT UNIT MX3000 - TOP



10.0.0. PARTS LISTS

10.1.0. 68 002 0043 DIGITAL OUTPUT UNIT S/P DIF V2

			68 001 0043	
			Digital output unit S/PDIF	
RC number	**Device**	**Package**	#	Ref. des.
02 002 000R	Resistor 0R00 0.125W 5%	SMD 0805	4	R10,R11,R12,R16
02 002 100R	Resistor 100R 0.125W 5%	SMD 0805	1	R3
02 002 330R	Resistor 330R 0.125W 5%	SMD 0805	1	R6
02 002 2k40	Resistor 2k40 0.125W 5%	SMD 0805	2	R2,R4
02 002 10k0	Resistor 10k0 0.125W 5%	SMD 0805	3	R1,R7,R9
02 003 220R	Resistor 220R 0.250W 5%	SMD 1206	1	R14
04 003 010µ	Capacitor electrolytic 10µ/35V	B	8	C2,C5,C7,C11,C13,C14,C20,C22
04 004 01n0	Capacitor 1n0 50V 10%	SMD 0805	2	C9,C10
04 004 0µ10	Capacitor 100n 50V 10%	SMD 0805	12	C1,C3,C4,C6,C8,C12,C15,C16,C17,C18,C19,C21
06 002 0001	Bead Ferrite 1k @ 100MHz	SMD	1	FB1
14 003 0001	Crystal oscillator 11.2896 MHZ 5V 50pF		1	XTO1
24 002 0003	PVR +5V 100mA	SO-8 narrow	1	U3
24 003 0004	IC Digital audio transmitter 96kHz	TSSOP-28	1	U2
24 005 0001	IC ADC Stereo 24-Bit 96 kHz single ended	SSOP-20	1	U1
24 007 0001	IC Single bus buffer gate 3-state output	DBV	1	U4
36 001 0001	LED red		1	D1
42 502 0001	Transfo Digital audio	SMD	1	T1
57 501 0008	RCA 1pol/90° Ni black	Trough hole	1	CI1
57 504 0006	Flatcable 3p 150mm 2,54mm 26AWG 1con	Trough hole	1	JP1
57 504 0024	Flatcable 3p 250mm 2,54mm 26AWG 1con mark +18V/-18V	Trough hole	1	JP2
66 001 0043	Print digital output S/PDIF		1	
	No component placed		4	R5,R8,R13,R17

10.2.0. 68 001 0047 ANALOG INPUT UNIT MX00

			68 001 0047	
			Analog input unit MX00	
RC number	**Device**	**Package**	#	Ref. des.
02 001 1R00	Resistor 1R00 0.125W 1%	SMD 0805	3	R1, R2, R3
02 004 0R00	Resistor 0R00 0.063W 1%	SMD 0603	3	R61, R79, R80
02 004 47R0	Resistor 47R0 0.063W 1%	SMD 0603	1	R138
02 004 100R	Resistor 100R 0.063W 1%	SMD 0603	2	R44, R46
02 004 120R	Resistor 120R 0.063W 1%	SMD 0603	4	R127, R129, R133, R135
02 004 150R	Resistor 150R 0.063W 1%	SMD 0603	2	R69, R70
02 004 220R	Resistor 220R 0.063W 1%	SMD 0603	3	R115, R139, R140
02 004 330R	Resistor 330R 0.063W 1%	SMD 0603	2	R17, R32
02 004 390R	Resistor 390R 0.063W 1%	SMD 0603	3	R116, R118, R119
02 004 470R	Resistor 470R 0.063W 1%	SMD 0603	4	R24, R27, R39, R42
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	2	R26, R41
02 004 2k20	Resistor 2k20 0.063W 1%	SMD 0603	6	R7, R10, R13, R16, R28, R31
02 004 3k90	Resistor 3k09 0.063W 1%	SMD 0603	4	R48, R50, R58, R60

02 004 3k30	Resistor 3k30 0.063W 1%	SMD 0603	10	R47, R51, R52, R53, R54, R56, R63, R64, R65, R66
02 004 3k60	Resistor 3k60 0.063W 1%	SMD 0603	2	R20, R35
02 004 4k70	Resistor 4k70 0.063W 1%	SMD 0603	4	R4, R5, R22, R37
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	28	R8, R9, R11, R15, R30, R55, R57, R71, R72, R76, R77, R78, R113, R114, R117, R120, R121, R123, R124, R125, R126, R128, R132, R134, R150, R151, RA1_1-2, RA1_3-4
02 004 27k0	Resistor 27k0 0.063W 1%	SMD 0603	2	R19, R34
02 004 47k0	Resistor 47k0 0.063W 1%	SMD 0603	2	R14, R29
02 004 100k	Resistor 100k 0.063W 1%	SMD 0603	8	R43, R45, R67, R68, R146, R147, R148, R149
02 004 120k	Resistor 120k 0.063W 1%	SMD 0603	2	R6, R12
02 004 220k	Resistor 220k 0.063W 1%	SMD 0603	1	R122
02 004 330k	Resistor 330k 0.063W 1%	SMD 0603	2	R18, R33
02 004 470k	Resistor 470k 0.063W 1%	SMD 0603	2	R21, R36
02 004 680k	Resistor 680k 0.063W 1%	SMD 0603	2	R25, R40
02 004 1M00	Resistor 1M00 0.063W 1%	SMD 0603	2	R23, R38
02 007 0001	Resistor array 4x10K0 5% 0.0625W	4x0603	1	RA2
02 503 220R	Resistor 220R 0.6W 1%	D2.3xL6.3 p11	1	R130
04 002 04µ7	Capacitor electrolytic 4µ7/50V	C	2	C4, C10
04 003 04µ7	Capacitor electrolytic 4µ7/35V	B	2	C41, C43
04 004 0µ10	Capacitor 100n 50V 10%	SMD 0805	2	C18, C31
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	19	C1, C2, C6, C15, C28, C48, C55, C59, C114, C129, C130, C133, C134, C135, C136, C137, C138, C139, C140
04 006 22µ0	Capacitor electrolitic 22µ/16V 20%	C	4	C21, C33, C45, C58
04 008 0µ47	Capacitor 470n 16V 10%	SMD 0805	4	C39, C42, C70, C71
04 009 10p0	Capacitor 10p0 50V 5%	SMD 0603	1	C11
04 009 47p0	Capacitor 47p0 50V 5%	SMD 0603	4	C17, C30, C53, C60
04 009 220p	Capacitor 220p 50V 5%	SMD 0603	10	C5, C8, C16, C29, C40, C44, C52, C64, C68, C69
04 009 330p	Capacitor 330p 50V 5%	SMD 0603	3	C7, C23, C35
04 009 4n70	Capacitor 4n70 50V 5%	SMD 0603	2	C22, C34
04 010 10n0	Capacitor 10n0 25V 10%	SMD 0603	2	C25, C37
04 010 22n0	Capacitor 22n0 25V 10%	SMD 0603	1	C9
04 011 02n7	Capacitor 2n7 50V 10%	SMD 0603	2	C26, C38
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	37	C3, C12, C13, C14, C19, C20, C27, C32, C46, C47, C49, C50, C51, C54, C56, C57, C61, C62, C63, C65, C66, C67, C112, C113, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C131, C132
04 013 33n0	Capacitor 33n0 16V 10%	SMD 0603	2	C24, C36
06 003 0001	Bead ferrite 1k @ 100MHz	SMD 0603	10	FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB13
09 501 0003	Trimmer horizontal 2k5 lin		1	R137
09 502 0001	Potmeter Rotative 2x100klog D-shaft 6mm 90°		1	P1
09 502 0013	Potmeter Rotative 2x10kalog D-shaft 6mm 90°		3	P2, P3, P4
09 502 0014	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC		2	P5, P6
11 501 0001	Switch Rotative 2x4pos D-shaft 6mm		1	SW1
11 502 0007	Switch Toggle 1x3/90°		1	SW3
11 504 0007	Switch Push 2x2/90° mom with green LED		1	S1
16 003 0003	Diode Zener 5V1	SOD-323	2	D1, D2
16 004 0002	Diode TVS 18V bidirectional	SMB?	2	TZ1, TZ2
19 001 0001	Transistor 2SC4213-A	USM?	2	Q3, Q4
19 001 0003	Transistor Resistor equiped PDTC114EU	SOT-323	2	Q1, Q2

19 002 0003	Transistor Resistor equiped PDTA114EU	SOT-323	1	Q5
24 001 0001	IC Dual opamp TL072CD	SO-8	1	U2
24 001 0002	IC Quad opamp TL074CD	SO-14	2	U3, U4
24 001 0004	IC Opamp NE5534D	SO-8	1	U1
24 001 0007	IC Quad opamp rail to rail	SO-14	1	U21
24 001 0010	IC Quad opamp TL074CP	TSSOP-14	1	U25
24 001 0011	IC Dual opamp AD8672AR	SO-8	2	U8, U9
24 002 0004	PVR +3.3V	SOT-23-5	1	U24
24 003 0005	IC Dual VCA WM8816		1	U6
26 002 0001	IC Quad buffer tri-state 74LCX125	SO-14	1	U23
26 002 0003	IC Triple 2 channel MUX 74HC4053	SO-16	4	U5, U7, U10, U11
26 002 0004	IC Quad buffer tri-state 74HCT125	SO-14	1	U17
30 001 0002	Microcontroller ATmega16 MX00 channel 2.10	TQFP44	1	U22
36 002 0002	LED red	SMD 0603	1	D6
36 501 0009	LED dual bi-colour 90°		1	D5
57 501 0005	RCA 2pol/90° Ni white/red		3	CI2, CI3, CI4
57 501 0006	RCA 2pol/90° Au white/red		1	CI1
57 502 0002	XLR 3pol/90°right F		1	XLR1
57 505 0010	Connector lock 4p/0° M		1	JP4
57 505 0012	Connector lock 2p/90° M		1	JP2
57 505 0015	Connector 2x5p/0° M		1	JP7
57 505 0016	Connector 2p/0° M		1	J1
57 511 0001	Connector 10p/0° F		2	JP6, JP8
57 512 0001	Connector 40p/90° M		1	K1
66 001 0047	Print analog input MX00	DS	1	PCB1

10.3.0. 68 001 0048 DIGITAL INPUT UNIT MX00

			68 001 0048	
			Digital input unit MX00	
RC number	**Device**	**Package**	#	Ref. des.
02 001 1R00	Resistor 1R00 0.125W 1%	SMD 0805	3	R1, R2, R3
02 001 100R	Resistor 100R 0.125W 1%	SMD 0805	1	R143
02 004 0R00	Resistor 0R00 0.063W 1%	SMD 0603	5	R61, R101, R105, R108, R109
02 004 47R0	Resistor 47R0 0.063W 1%	SMD 0603	4	R91, R93, R112, R138
02 004 75R0	Resistor 75R0 0.063W 1%	SMD 0603	1	R89
02 004 100R	Resistor 100R 0.063W 1%	SMD 0603	3	R44, R46, R99
02 004 120R	Resistor 120R 0.063W 1%	SMD 0603	4	R127,R129,R133,R135
02 004 220R	Resistor 220R 0.063W 1%	SMD 0603	3	R115, R139, R140
02 004 330R	Resistor 330R 0.063W 1%	SMD 0603	3	R17, R32, R102,
02 004 390R	Resistor 390R 0.063W 1%	SMD 0603	3	R116, R118, R119
02 004 470R	Resistor 470R 0.063W 1%	SMD 0603	4	R24, R27, R39, R42
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	2	R26, R41
02 004 2k20	Resistor 2k20 0.063W 1%	SMD 0603	8	R7, R10, R13, R16, R28, R31, R70, R80
02 004 2k40	Resistor 2k40 0.063W 1%	SMD 0603	2	R98, R100
02 004 3k00	Resistor 3k00 0.063W 1%	SMD 0603	1	R95
02 004 3k90	Resistor 3k09 0.063W 1%	SMD 0603	4	R48, R50, R58, R60
02 004 3k30	Resistor 3k30 0.063W 1%	SMD 0603	10	R47, R51, R52, R53, R54, R56, R63, R64, R65, R66

02 004 3k60	Resistor 3k60 0.063W 1%	SMD 0603	6	R20, R35, R71, R72, R81, R82
02 004 3k90	Resistor 3k90 0.063W 1%	SMD 0603	2	R74, R76
02 004 4k70	Resistor 4k70 0.063W 1%	SMD 0603	4	R4, R5, R22, R37
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	43	R8, R9, R11, R15, R30, R55, R57, R67, R68, R69, R73, R77, R78, R79, R83, R85, R86, R90, R97, R103, R104, R106, R107, R110, R111, R113, R114, R117, R120, R121, R123, R124, R125, R126, R128, R132, R134, R144, R145, R150, R151, RA1_1-2, RA1_3-4
02 004 27k0	Resistor 27k0 0.063W 1%	SMD 0603	2	R19, R34
02 004 47k0	Resistor 47k0 0.063W 1%	SMD 0603	5	R14, R29, R87, R88, R96
02 004 100k	Resistor 100k 0.063W 1%	SMD 0603	8	R43, R45, R75, R84, R146, R147, R148, R149
02 004 120k	Resistor 120k 0.063W 1%	SMD 0603	2	R6, R12
02 004 220k	Resistor 220k 0.063W 1%	SMD 0603	1	R122
02 004 330k	Resistor 330k 0.063W 1%	SMD 0603	2	R18, R33
02 004 470k	Resistor 470k 0.063W 1%	SMD 0603	2	R21, R36
02 004 680k	Resistor 680k 0.063W 1%	SMD 0603	2	R25, R40
02 004 1M00	Resistor 1M00 0.063W 1%	SMD 0603	2	R23, R38
02 007 0001	Resistor array 4x10K0 5% 0.0625W	4x0603	1	RA2
02 503 220R	Resistor 220R 0.6W 1%	D2.3xL6.3 p11	1	R130
04 002 04µ7	Capacitor electrolytic 4µ7/50V	C	2	C4, C10
04 003 04µ7	Capacitor electrolytic 4µ7/35V	B	2	C41, C43
04 004 0µ10	Capacitor 100n 50V 10%	SMD 0805	2	C18, C31
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	31	C1, C2, C6, C15, C28, C48, C55, C59, C83, C86, C88, C89, C92, C95, C98, C100, C104, C106, C107, C114, C124, C125, C128, C129, C130, C133, C134, C135, C136, C137, C138
04 006 22µ0	Capacitor electrolitic 22µ/16V 20%	C	4	C21, C33, C45, C58
04 008 0µ47	Capacitor 470n 16V 10%	SMD 0805	4	C39, C42, C74, C81
04 009 10p0	Capacitor 10p0 50V 5%	SMD 0603	1	C11
04 009 47p0	Capacitor 47p0 50V 5%	SMD 0603	4	C17, C30, C53, C60
04 009 100p	Capacitor 100p 50V 5%	SMD 0603	4	C69, C73, C76, C80
04 009 220p	Capacitor 220p 50V 5%	SMD 0603	8	C5, C8, C16, C29, C40, C44, C52, C64
04 009 330p	Capacitor 330p 50V 5%	SMD 0603	3	C7, C23, C35
04 009 470p	Capacitor 470p 50V 5%	SMD 0603	2	C72, C79
04 009 1n00	Capacitor 1n00 50V 5%	SMD 0603	3	C102, C103, CX
04 009 4n70	Capacitor 4n70 50V 5%	SMD 0603	4	C22, C34, C71, C78
04 010 10n0	Capacitor 10n0 25V 10%	SMD 0603	4	C25, C37, C90, C91
04 010 22n0	Capacitor 22n0 25V 10%	SMD 0603	2	C9, C93
04 011 02n7	Capacitor 2n7 50V 10%	SMD 0603	2	C26, C38
04 011 03n3	Capacitor 3n3 50V 10%	SMD 0603	2	C70, C77
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	51	C3, C12, C13, C14, C19, C20, C27, C32, C46, C47, C49, C50, C51, C54, C56, C57, C61, C62, C63, C65, C66, C67, C68, C75, C82, C84,C85, C87, C94, C96, C97, C99, C101, C108, C109, C110, C112, C113, C115, C116, C117, C118, C119, C120, C121, C122, C123, C126, C127, C131, C132
04 013 33n0	Capacitor 33n0 16V 10%	SMD 0603	2	C24, C36
06 003 0001	Bead ferrite 1k @ 100MHz	SMD 0603	12	FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB11, FB12, FB13, FB15
09 501 0003	Trimmer horizontal 2k5 lin		1	R137
09 502 0001	Potmeter Rotative 2x100klog D-shaft 6mm 90°		1	P1
09 502 0013	Potmeter Rotative 2x10kalog D-shaft 6mm 90°		3	P2, P3, P4
09 502 0014	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC		2	P5, P6
11 501 0001	Switch Rotative 2x4pos D-shaft 6mm		1	SW1

11 502 0007	Switch Toggle 1x3/90°		1	SW3
11 504 0007	Switch Push 2x2/90° mom with green LED		1	S1
16 001 0004	Diode Schottky 1A PMEG3010BEA	SOD-323	2	D3, D4
16 001 0005	Diode Schottky 200mA 1PS76SB10	SOD-323	1	D7
16 003 0003	Diode Zener 5V1	SOD-323	2	D1, D2
16 004 0003	Diode TVS 5V bidirectional	SOD-323	1	TZ1
19 001 0003	Transistor Resistor equiped PDTC114EU	SOT-323	2	Q1, Q2
24 001 0001	IC Dual opamp TL072CD	SO-8	2	U2, U12
24 001 0002	IC Quad opamp TL074CD	SO-14	3	U3, U4, U13
24 001 0004	IC Opamp NE5534D	SO-8	1	U1
24 001 0007	IC Quad opamp rail to rail	SO-14	1	U21
24 001 0010	IC Quad opamp TL074CP	TSSOP-14	1	U25
24 001 0011	IC Dual opamp AD8672AR	SO-8	2	U8, U9
24 002 0003	PVR +5V 100mA	SO-8 narrow	1	U24
24 002 0004	PVR +3.3V	SOT-23-5	1	U14
24 003 0004	IC Digital audio transmitter 96kHz	TSSOP-28	1	U19
24 003 0005	IC Dual VCA WM8816		1	U6
24 003 0006	IC Digital audio interf. reciever 192kHz CS8416	TSSOP-28	1	U15
24 005 0001	IC ADC Stereo 24-Bit 96 kHz single ended	SSOP-20	1	U18
24 006 0003	IC DAC stereo 24bit 192kHz PCM1781	SSOP-16	1	U16
26 002 0001	IC Quad buffer tri-state 74LCX125	SO-14	1	U23
26 002 0002	IC Single buffer tri-state 74HCT1G125	SOT-353	1	U20
26 002 0003	IC Triple 2 channel MUX 74HC4053	SO-16	4	U5, U7, U10, U11
26 002 0004	IC Quad buffer tri-state 74HCT125	SO-14	1	U17
30 001 0002	Microcontroller ATmega16 MX00 channel 2.10	TQFP44	1	U22
36 002 0002	LED red	SMD 0603	1	D6
36 501 0009	LED dual bi-colour 90°		1	D5
42 502 0001	Transfo Digital audio		1	T1
57 501 0005	RCA 2pol/90° Ni white/red		1	CI2
57 501 0006	RCA 2pol/90° Au white/red		1	CI1
57 501 0010	RCA 2pol/90° Ni orange/orange		1	CI3
57 502 0002	XLR 3pol/90°right F		1	XLR1
57 505 0010	Connector lock 4p/0° M		1	JP4
57 505 0012	Connector lock 2p/90° M		1	JP2
57 505 0013	Connector 3x2p/90° M		1	JP9
57 505 0015	Connector 2x5p/0° M		1	JP7
57 505 0016	Connector 2p/0° M		1	J1
57 511 0001	Connector 10p/0° F		2	JP6, JP8
57 512 0001	Connector 40p/90° M		1	K1
66 001 0048	Print digital input MX00	DS	1	PCB1

10.4.0. 68 002 0048 DIGITAL INPUT UNIT MX00 WITH 3P CONNECTOR

			68 002 0048	
			Digital input unit MX00 with 3p connector	
RC number	**Device**	**Package**	#	Ref. des.
02 001 1R00	Resistor 1R00 0.125W 1%	SMD 0805	3	R1, R2, R3
02 001 100R	Resistor 100R 0.125W 1%	SMD 0805	1	R143
02 004 0R00	Resistor 0R00 0.063W 1%	SMD 0603	5	R61, R101, R105, R108, R109

02 004 47R0	Resistor 47R0 0.063W 1%	SMD 0603	4	R91, R93, R112, R138
02 004 75R0	Resistor 75R0 0.063W 1%	SMD 0603	1	R89
02 004 100R	Resistor 100R 0.063W 1%	SMD 0603	3	R44, R46, R99
02 004 120R	Resistor 120R 0.063W 1%	SMD 0603	4	R127,R129,R133,R135
02 004 220R	Resistor 220R 0.063W 1%	SMD 0603	3	R115, R139, R140
02 004 330R	Resistor 330R 0.063W 1%	SMD 0603	3	R17, R32, R102,
02 004 390R	Resistor 390R 0.063W 1%	SMD 0603	3	R116, R118, R119
02 004 470R	Resistor 470R 0.063W 1%	SMD 0603	4	R24, R27, R39, R42
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	2	R26, R41
02 004 2k20	Resistor 2k20 0.063W 1%	SMD 0603	8	R7, R10, R13, R16, R28, R31, R70, R80
02 004 2k40	Resistor 2k40 0.063W 1%	SMD 0603	2	R98, R100
02 004 3k00	Resistor 3k00 0.063W 1%	SMD 0603	1	R95
02 004 3k90	Resistor 3k09 0.063W 1%	SMD 0603	4	R48, R50, R58, R60
02 004 3k30	Resistor 3k30 0.063W 1%	SMD 0603	10	R47, R51, R52, R53, R54, R56, R63, R64, R65, R66
02 004 3k60	Resistor 3k60 0.063W 1%	SMD 0603	6	R20, R35, R71, R72, R81, R82
02 004 3k90	Resistor 3k90 0.063W 1%	SMD 0603	2	R74, R76
02 004 4k70	Resistor 4k70 0.063W 1%	SMD 0603	4	R4, R5, R22, R37
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	43	R8, R9, R11, R15, R30, R55, R57, R67, R68, R69, R73, R77, R78, R79, R83, R85, R86, R90, R97, R103, R104, R106, R107, R110, R111, R113, R114, R117, R120, R121, R123, R124, R125, R126, R128, R132, R134, R144, R145, R150, R151, RA1_1-2, RA1_3-4
02 004 27k0	Resistor 27k0 0.063W 1%	SMD 0603	2	R19, R34
02 004 47k0	Resistor 47k0 0.063W 1%	SMD 0603	5	R14, R29, R87, R88, R96
02 004 100k	Resistor 100k 0.063W 1%	SMD 0603	8	R43, R45, R75, R84, R146, R147, R148, R149
02 004 120k	Resistor 120k 0.063W 1%	SMD 0603	2	R6, R12
02 004 220k	Resistor 220k 0.063W 1%	SMD 0603	1	R122
02 004 330k	Resistor 330k 0.063W 1%	SMD 0603	2	R18, R33
02 004 470k	Resistor 470k 0.063W 1%	SMD 0603	2	R21, R36
02 004 680k	Resistor 680k 0.063W 1%	SMD 0603	2	R25, R40
02 004 1M00	Resistor 1M00 0.063W 1%	SMD 0603	2	R23, R38
02 007 0001	Resistor array 4x10K0 5% 0.0625W	4x0603	1	RA2
02 503 220R	Resistor 220R 0.6W 1%	D2.3xL6.3 p11	1	R130
04 002 04µ7	Capacitor electrolytic 4µ7/50V	C	2	C4, C10
04 003 04µ7	Capacitor electrolytic 4µ7/35V	B	2	C41, C43
04 004 0µ10	Capacitor 100n 50V 10%	SMD 0805	2	C18, C31
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	31	C1, C2, C6, C15, C28, C48, C55, C59, C83, C86, C88, C89, C92, C95, C98, C100, C104, C106, C107, C114, C124, C125, C128, C129, C130, C133, C134, C135, C136, C137, C138
04 006 22µ0	Capacitor electrolitic 22µ/16V 20%	C	4	C21, C33, C45, C58
04 008 0µ47	Capacitor 470n 16V 10%	SMD 0805	4	C39, C42, C74, C81
04 009 10p0	Capacitor 10p0 50V 5%	SMD 0603	1	C11
04 009 47p0	Capacitor 47p0 50V 5%	SMD 0603	4	C17, C30, C53, C60
04 009 100p	Capacitor 100p 50V 5%	SMD 0603	4	C69, C73, C76, C80
04 009 220p	Capacitor 220p 50V 5%	SMD 0603	8	C5, C8, C16, C29, C40, C44, C52, C64
04 009 330p	Capacitor 330p 50V 5%	SMD 0603	3	C7, C23, C35
04 009 470p	Capacitor 470p 50V 5%	SMD 0603	2	C72, C79
04 009 1n00	Capacitor 1n00 50V 5%	SMD 0603	3	C102, C103, CX
04 009 4n70	Capacitor 4n70 50V 5%	SMD 0603	4	C22, C34, C71, C78
04 010 10n0	Capacitor 10n0 25V 10%	SMD 0603	4	C25, C37, C90, C91

04 010 22n0	Capacitor 22n0 25V 10%	SMD 0603	2	C9, C93
04 011 02n7	Capacitor 2n7 50V 10%	SMD 0603	2	C26, C38
04 011 03n3	Capacitor 3n3 50V 10%	SMD 0603	2	C70, C77
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	51	C3, C12, C13, C14, C19, C20, C27, C32, C46, C47, C49, C50, C51, C54, C56, C57, C61, C62, C63, C65, C66, C67, C68, C75, C82, C84,C85, C87, C94, C96, C97, C99, C101, C108, C109, C110, C112, C113, C115, C116, C117, C118, C119, C120, C121, C122, C123, C126, C127, C131, C132
04 013 33n0	Capacitor 33n0 16V 10%	SMD 0603	2	C24, C36
06 003 0001	Bead ferrite 1k @ 100MHz	SMD 0603	12	FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB11, FB12, FB13, FB15
09 501 0003	Trimmer horizontal 2k5 lin		1	R137
09 502 0001	Potmeter Rotative 2x100klog D-shaft 6mm 90°		1	P1
09 502 0013	Potmeter Rotative 2x10kalog D-shaft 6mm 90°		3	P2, P3, P4
09 502 0014	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC		2	P5, P6
11 501 0001	Switch Rotative 2x4pos D-shaft 6mm		1	SW1
11 502 0007	Switch Toggle 1x3/90°		1	SW3
11 504 0007	Switch Push 2x2/90° mom with green LED		1	S1
16 001 0004	Diode Schottky 1A PMEG3010BEA	SOD-323	2	D3, D4
16 001 0005	Diode Schottky 200mA 1PS76SB10	SOD-323	1	D7
16 003 0003	Diode Zener 5V1	SOD-323	2	D1, D2
16 004 0003	Diode TVS 5V bidirectional	SOD-323	1	TZ1
19 001 0003	Transistor Resistor equiped PDTC114EU	SOT-323	2	Q1, Q2
24 001 0001	IC Dual opamp TL072CD	SO-8	2	U2, U12
24 001 0002	IC Quad opamp TL074CD	SO-14	3	U3, U4, U13
24 001 0004	IC Opamp NE5534D	SO-8	1	U1
24 001 0007	IC Quad opamp rail to rail	SO-14	1	U21
24 001 0010	IC Quad opamp TL074CP	TSSOP-14	1	U25
24 001 0011	IC Dual opamp AD8672AR	SO-8	2	U8, U9
24 002 0003	PVR +5V 100mA	SO-8 narrow	1	U24
24 002 0004	PVR +3.3V	SOT-23-5	1	U14
24 003 0004	IC Digital audio transmitter 96kHz	TSSOP-28	1	U19
24 003 0005	IC Dual VCA WM8816		1	U6
24 003 0006	IC Digital audio interf. reciever 192kHz CS8416	TSSOP-28	1	U15
24 005 0001	IC ADC Stereo 24-Bit 96 kHz single ended	SSOP-20	1	U18
24 006 0003	IC DAC stereo 24bit 192kHz PCM1781	SSOP-16	1	U16
26 002 0001	IC Quad buffer tri-state 74LCX125	SO-14	1	U23
26 002 0002	IC Single buffer tri-state 74HCT1G125	SOT-353	1	U20
26 002 0003	IC Triple 2 channel MUX 74HC4053	SO-16	4	U5, U7, U10, U11
26 002 0004	IC Quad buffer tri-state 74HCT125	SO-14	1	U17
30 001 0002	Microcontroller ATmega16 MX00 channel 2.10	TQFP44	1	U22
36 002 0002	LED red	SMD 0603	1	D6
36 501 0009	LED dual bi-colour 90°		1	D5
42 502 0001	Transfo Digital audio		1	T1
57 501 0006	RCA 2pol/90° Au white/red		1	CI1
57 501 0010	RCA 2pol/90° Ni orange/orange		1	CI3
57 502 0002	XLR 3pol/90°right F		1	XLR1
57 505 0002	Connector lock 3p/0° M		1	JP3
57 505 0010	Connector lock 4p/0° M		1	JP4
57 505 0012	Connector lock 2p/90° M		1	JP2
57 505 0013	Connector 3x2p/90° M		1	JP9
57 505 0015	Connector 2x5p/0° M		1	JP7

57 505 0016	Connector 2p/0° M		1	J1
57 511 0001	Connector 10p/0° F		2	JP6, JP8
57 512 0001	Connector 40p/90° M		1	K1
66 001 0048	Print digital input MX00	DS	1	PCB1
94 001 0075	Label 68 002 0048		1	On PCB text print 66 001 0048

10.5.0. 68 001 0049 DJ MICROPHONE UNIT MX00

			68 001 0049	
			DJ mic input unit MX00	
RC number	**Device**	**Package**	#	Ref. des.
02 001 1R00	Resistor 1R00 0.125W 1%	SMD 0805	3	R16, R17, R19
02 004 10R0	Resistor 10R0 0.063W 1%	SMD 0603	2	R44, R45
02 004 100R	Resistor 100R 0.063W 1%	SMD 0603	2	R29, R39
02 004 220R	Resistor 220R 0.063W 1%	SMD 0603	1	R40
02 004 390R	Resistor 390R 0.063W 1%	SMD 0603	1	R68
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	8	R13, R22, R32, R33, R42, R55, R72, R73
02 004 2k20	Resistor 2k20 0.063W 1%	SMD 0603	1	R47
02 004 3k30	Resistor 3k30 0.063W 1%	SMD 0603	2	R5, R6
02 004 3k90	Resistor 3k90 0.063W 1%	SMD 0603	2	R23, R28
02 004 4k70	Resistor 4k70 0.063W 1%	SMD 0603	2	R24, R30
02 004 6k80	Resistor 6k80 0.063W 1%	SMD 0603	2	R11, R12
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	23	R25, R26, R31, R36, R37, R38, R41, R49, R50, R51, R52, R53, R56, R57, R58, R60, R61, R62, R63, R66, R67, R69, R70
02 004 12k0	Resistor 12k0 0.063W 1%	SMD 0603	5	R1, R2, R3, R4, R18
02 004 18k0	Resistor 18k0 0.063W 1%	SMD 0603	1	R21
02 004 20k0	Resistor 20k0 0.063W 1%	SMD 0603	2	R20, R27
02 004 22k0	Resistor 22k0 0.063W 1%	SMD 0603	2	R14, R48
02 004 47k0	Resistor 47k0 0.063W 1%	SMD 0603	1	R9
02 004 100k	Resistor 100k 0.063W 1%	SMD 0603	4	R10, R15, R34, R35
02 004 1M00	Resistor 1M00 0.063W 1%	SMD 0603	2	R7, R8
02 010 01R5	Resistor 01R5 0.500W 1%	SMD 2010	2	R64, R65
02 502 010R	Resistor Fuse 10R 0.5W 5%	D2.5xL6.5 p11	1	R59
02 507 01R0	Resistor 1R0 2W 5%	D3.9xL12 p15.5	2	R43, R46
04 002 02µ2	Capacitor electrolytic 2µ2/50V	B	7	C3, C10, C11, C13, C19, C21, C26
04 002 04µ7	Capacitor electrolytic 4µ7/50V	C	2	C20, C22
04 003 220µ	Capacitor electrolytic 220µ/35V	F	2	C36, C39
04 004 0µ10	Capacitor 100n 50V 10%	SMD 0805	2	C60, C61
04 004 0µ22	Capacitor 220n 50V 10%	SMD 0805	4	C34, C38, C41, C76
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	4	C16, C18, C37, C57
04 007 10µ0	Capacitor eletrolitic 10µ/25V 20%	C	1	C68
04 007 22µ0	Capacitor eletrolitic 22µ/25V 20%	C	1	C67
04 007 100µ	Capacitor eletrolitic 100µ/25V 20%	D8	1	C69
04 009 22p0	Capacitor 22p0 50V 5%	SMD 0603	2	C63, C64
04 009 100p	Capacitor 100p 50V 5%	SMD 0603	3	C14, C17, C25
04 009 220p	Capacitor 220p 50V 5%	SMD 0603	2	C72, C73
04 009 470p	Capacitor 470p 50V 5%	SMD 0603	3	C5, C74, C75
04 009 1n00	Capacitor 1n00 50V 5%	SMD 0603	3	C23, C24, C33

04 009 4n70	Capacitor 4n70 50V 5%	SMD 0603	1	C1
04 010 47n0	Capacitor 47n0 25V 10%	SMD 0603	1	C9
04 011 01n5	Capacitor 1n50 50V 10%	SMD 0603	1	C4
04 011 10n0	Capacitor 10n0 50V 10%	SMD 0603	4	C49, C50, C51, C52
04 011 22n0	Capacitor 22n0 50V 10%	SMD 0603	1	C27
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	24	C2, C6, C7, C8, C12, C15, C28, C29, C30, C43, C44, C45, C46, C47, C48, C53, C54, C55, C56, C58, C59, C62 , C70, C71
04 014 01µ0	Capacitor 1µ0 50V 10%	SMD 1206	2	C35, C40
04 513 022n	Capacitor multilayer 22n 20%	p5	1	C32
04 520 2m20	Capacitor electrolytic 2200µ/25V radial low profile	D16xH20 p7.5	2	C55,C56
06 003 0001	Bead ferrite 1k @ 100MHz	SMD 0603	2	FB7, FB8
06 504 0001	Bead ferrite 75R @ 100MHz		7	FB1, FB2, FB3, FB4, FB5, FB6, FB9
09 502 0004	Potmeter Rotative 1x100klin D-shaft 6mm 90°		4	P1, P2, P4, P6
09 502 0015	Potmeter Rotative 2x10klog D-shaft 6mm 90°		1	P3
09 502 0016	Potmeter Rotative 1x100klog D-shaft 6mm 90°		1	P5
11 504 0007	Switch Push 2x2/90° mom with green LED		1	S1
16 001 0004	Diode Schottky 1A PMEG3010BEA	SOD-323	2	D9, D11
16 001 0005	Diode Schottky 200mA 1PS76SB10	SOD-323	2	D1, D2
16 001 0006	Diode Power Schottky 3A SS36	SMC	4	D8, D10, D12, D13
16 001 0008	Diode BAS316	SOD-323	4	D15, D16, D17, D18
16 003 0003	Diode Zener 5V1	SOD-323	2	D4, D5
16 003 0004	Diode Zener 5V6	SOD-323	1	D3
19 001 0003	Transistor Resistor equiped PDTC114EU	SOT-323	3	Q1, Q8, Q9
19 001 0005	Transistor BC847	SOT-23	2	Q12, Q16
19 001 0006	Transistor MJD122G	TO-252 DPAK	1	Q14
19 002 0002	Transistor BC857B	SOT-23	3	Q2, Q10, Q15
19 002 0003	Transistor Resistor equiped PDTA114EU	SOT-323	2	Q7, Q17
19 002 0004	Transistor MJD127G	TO-252 DPAK	1	Q13
19 005 0001	MOSFET P channel enhancement NDT452AP	SOT-223	2	Q5, Q6
19 006 0002	MOSFET N channel enhancement NDT3055L	SOT-223	3	Q3, Q4, Q11
24 001 0001	IC Dual opamp TL072CD	SO-8	1	U4
24 001 0002	IC Quad opamp TL074CD	SO-14	1	U2
24 001 0003	IC Dual opamp NE5532AD	SO-8	1	U3
24 002 0005	PVR +12V 100mA	SO-8	1	U7
24 003 0007	IC Half bridge gate driver LM5104	SO-8	1	U8
26 002 0003	IC Triple 2 channel MUX 74HC4053	SO-16	1	U1
26 002 0005	IC Dual J-K neg edge triggered flip flop 74HC112	SO-16	1	U5
26 002 0006	IC Hex schmitt trigger 74HC14	SO-14	1	U6
26 002 0008	IC Quad 2 input exclusive OR gate 74HC68	SO-14	1	U9
57 502 0006	COMBO XLR-JACK 6p??? 90°		1	XLR1
57 503 0005	JACK STEREO 90°/6.35mm small center		1	JACK1
57 504 0033	Flatcable 6p 240mm 2,54mm 26AWG 1con		1	JP2
57 505 0001	Connector lock 5p/0° M		1	J1
57 505 0002	Connector lock 3p/0° M		3	JP3, JP4, JP5
57 506 0008	Connector lock 6p/0° square pins M		1	JP1
57 510 0006	Faston PCB male 2.8 x 0.5		1	PIN1
57 510 0013	Earth terminal PCB 90° M3		1	BR1
57 512 0001	Connector 40p/90° M		1	K1
66 001 0049	Print DJ microphone input MX00	DS	1	PCB1

10.6.0. 68 001 0050 OUTPUT UNIT MX1800/MX3000

			68 001 0050	
			Output unit MX1800/MX3000	
RC number	**Device**	**Package**	#	Ref. des.
02 001 1R00	Resistor 1R00 0.125W 1%	SMD 0805	3	R1, R2, R4
02 004 0R00	Resistor 0R00 0.063W 1%	SMD 0603	3	R3, R65, R67
02 004 47R0	Resistor 47R0 0.063W 1%	SMD 0603	2	R202, R210
02 004 120R	Resistor 120R 0.063W 1%	SMD 0603	4	R195, R196, R198, R201
02 004 150R	Resistor 150R 0.063W 1%	SMD 0603	6	R12, R15, R23, R26, R172, R176
02 004 220R	Resistor 220R 0.063W 1%	SMD 0603	8	R145, R150, R180, R183, R199, R205, R207, R215
02 004 390R	Resistor 390R 0.063W 1%	SMD 0603	4	R187, R188, R192, R193
02 004 560R	Resistor 560R 0.063W 1%	SMD 0603	2	R81, R87
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	2	R32, R36
02 004 1k20	Resistor 1k20 0.063W 1%	SMD 0603	1	R230
02 004 1k80	Resistor 1k80 0.063W 1%	SMD 0603	2	R40, R41
02 004 2k20	Resistor 2k20 0.063W 1%	SMD 0603	13	R74, R80, R88, R94, R98, R101, R105, R109, R152, R162, R227, R228, R229
02 004 3k90	Resistor 3k09 0.063W 1%	SMD 0603	4	R147, R149, R159, R161
02 004 3k30	Resistor 3k30 0.063W 1%	SMD 0603	14	R7, R10, R17, R21, R55, R61, R154, R155, R156, R157, R164, R165, R166, R167
02 004 4k70	Resistor 4k70 0.063W 1%	SMD 0603	2	R5, R6
02 004 5k60	Resistor 5k60 0.063W 1%	SMD 0603	2	R60, R63
02 004 6k80	Resistor 6k80 0.063W 1%	SMD 0603	4	R135, R136, R142, R143
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	88	R8, R9, R11, R13, R14, R16, R18, R19, R20, R22, R24, R25, R27, R28, R29, R31, R33, R34, R35, R37, R43, R44, R45, R46, R47, R48, R49, R50, R56, R58, R66, R68, R69, R70, R71, R72, R75, R79, R89, R95, R111, R112, R113, R114, R115, R116, R117, R118, R121, R122, R123, R124, R127, R130, R131, R144, R146, R148, R158, R160, R168, R169, R170, R171, R174, R175, R178, R185, R189, R190, R191, R194, R197, R200, R203, R206, R209, R211, R216, R217, R218, R219, R220, R221, R222, R223, R225, R226
02 004 12k0	Resistor 12k0 0.063W 1%	SMD 0603	4	R128, R129, R137, R138
02 004 15k0	Resistor 15k0 0.063W 1%	SMD 0603	6	R51, R52, R59, R64, R91, R107
02 004 33k0	Resistor 33k0 0.063W 1%	SMD 0603	8	R85, R96, R104, R110, R119, R125, R133, R139
02 004 47k0	Resistor 47k0 0.063W 1%	SMD 0603	8	R132, R141, R173, R177, R179, R181, R182, R184
02 004 100k	Resistor 100k 0.063W 1%	SMD 0603	4	R39, R57, R62, R224
02 004 120k	Resistor 120k 0.063W 1%	SMD 0603	4	R120, R126, R134, R140
02 004 220k	Resistor 220k 0.063W 1%	SMD 0603	2	R186, R213
02 006 00R0	Resistor 00R0 0.250W 1%	SMD 1206	1	R84
02 006 10R0	Resistor 10R0 0.250W 1%	SMD 1206	2	R83, R103
02 006 120R	Resistor 120R 0.250W 1%	SMD 1206	1	R204
02 007 0001	Resistor array 4x10K0 5% 0.0625W	4x0603	3	RA1, RA2, RA4
02 508 22R0	Resistor 22R 3W 5%	D5.5xL15	4	R82, R86, R102, R106
02 511 18R0	Resistor 18R0 5W 10% axial	L22.4xW9.7xD8.6	2	R97, R99
04 002 02µ2	Capacitor electrolytic 2µ2/50V	B	1	C125
04 003 04µ7	Capacitor electrolytic 4µ7/35V	B	2	C69, C78
04 004 0µ22	Capacitor 220n 50V 10%	SMD 0805	4	C72, C73, C81, C82
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	25	C1, C2, C13, C16, C21, C24, C31, C36, C41, C44, C53, C71, C77, C80, C85, C105, C112, C118, C138, C141, C145, C146, C156, C165, C167

04 007 10µ0	Capacitor eletrolitic 10µ/25V 20%	C	23	C9, C10, C19, C20, C47, C50, C52, C54, C58, C61, C70, C76, C90, C94, C98, C102, C106, C110, C116, C124, C131, C134, C137
04 009 22p0	Capacitor 22p0 50V 5%	SMD 0603	19	C6, C8, C15, C18, C28, C33, C37, C38, C64, C67, C74, C83, C87, C91, C96, C99, C103, C123, C136
04 009 47p0	Capacitor 47p0 50V 5%	SMD 0603	10	C30, C32, C39, C40, C49, C51, C55, C56, C178, C179
04 009 100p	Capacitor 100p 50V 5%	SMD 0603	4	C75, C79, C84, C86
04 009 220p	Capacitor 220p 50V 5%	SMD 0603	8	C4, C7, C14, C17, C59, C62, C130, C142
04 009 1n00	Capacitor 1n00 50V 5%	SMD 0603	2	C107, C117
04 010 22n0	Capacitor 22n0 25V 10%	SMD 0603	1	C181
04 010 47n0	Capacitor 47n0 25V 10%	SMD 0603	4	C93, C101, C109, C115
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	67	C3, C5, C11, C12, C22, C23, C25, C26, C27, C29, C34, C35, C42, C43, C45, C46, C57, C60, C63, C65, C88, C89, C92, C95, C97, C100, C104, C108, C111, C114, C121, C122, C126, C127, C129, C132, C133, C135, C139, C140, C143, C144, C147, C148, C149, C150, C151, C152, C153, C154, C155, C157, C158, C159, C160, C161, C164, C166, C168, C169, C170, C171, C172, C173, C174, C175, C176
04 013 68n0	Capacitor 68n0 16V 10%	SMD 0603	2	C113, C120
06 003 0001	Bead ferrite 1k @ 100MHz	SMD 0603	5	FB2, FB3, FB4, FB5, FB6
09 502 0002	Potmeter Rotative 2x100klin D-shaft 6mm 90°		2	P3, P4
09 502 0010	Potmeter Rotative 2x10klin D-shaft 6mm 90°		1	P1
09 502 0014	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC		2	P6, P7
09 502 0015	Potmeter Rotative 2x10klog D-shaft 6mm 90°		1	P2
11 501 0001	Switch Rotative 2x4pos D-shaft 6mm		1	SW6
11 504 0003	Switch Push 2x4/90°		1	SW3
11 504 0004	Switch Push 2x2/90°		3	SW1, SW2, SW5
14 003 0001	Crystal oscillator 11.2896 MHZ 5V 50pF		1	XTO1
16 001 0005	Diode Schottky 200mA 1PS76SB10	SOD-323	1	D20
16 001 0007	Diode Schottky 400mA PMEG3020 or ZLLS400	SOD-323	2	D5, D12
16 001 0008	Diode BAS316	SOD-323	4	D6, D11, D13, D16
16 003 0003	Diode Zener 5V1	SOD-323	2	D2, D4
16 003 0005	Diode Zener 13V	SOD-323	2	D8, D10
16 004 0002	Diode TVS 18V bidirectional	SMB?	2	TZ1, TZ2
19 001 0001	Transistor 2SC4213-A	USM?	6	Q13, Q14, Q19, Q20, Q21, Q22
19 001 0003	Transistor Resistor equiped PDTC114EU	SOT-323	2	Q4, Q15
19 001 0004	Transistor BC846A	SOT-23	2	Q2, Q9
19 001 0005	Transistor BC847	SOT-23	2	Q17, Q18
19 001 0006	Transistor MJD122G	TO-252 DPAK	2	Q3, Q10
19 002 0001	Transistor BC856A	SOT-23	2	Q6, Q11
19 002 0003	Transistor Resistor equiped PDTA114EU	SOT-323	2	Q5, Q16
19 002 0004	Transistor MJD127G	TO-252 DPAK	2	Q7, Q12
19 005 0001	MOSFET P channel enhancement NDT452AP	SOT-223	1	Q1
19 006 0002	MOSFET N channel enhancement NDT3055L	SOT-223	1	Q8
24 001 0001	IC Dual opamp TL072CD	SO-8	5	U13, U17, U27, U28, U29
24 001 0002	IC Quad opamp TL074CD	SO-14	7	U1, U2, U11, U18, U19, U20, U21
24 001 0004	IC Opamp NE5534D	SO-8	2	U15, U16
24 001 0007	IC Quad opamp rail to rail	SO-14	1	U30
24 001 0012	IC Quad opamp AD8674AR	SO-14	3	U5, U6, U7
24 002 0004	PVR +3.3V	SOT-23-5	1	U38
24 003 0005	IC Dual VCA WM8816		4	U3, U4, U8, U9
24 003 0008	IC Low power µP supervisory 4.65V SP707	SO-8	1	U37

26 002 0001	IC Quad buffer tri-state 74LCX125	SO-14	1	U33
26 002 0003	IC Triple 2 channel MUX 74HC4053	SO-16	4	U22, U23, U24, U25
26 002 0004	IC Quad buffer tri-state 74HCT125	SO-14	1	U32
26 002 0007	IC Triple 3 input positive NAND gate 74HC10	SO-14	1	U36
30 001 0003	Microcontroller ATmega64 MX00 master 2.10	TQFP64	1	U31
36 002 0002	LED red	SMD 0603	1	D17
36 501 0009	LED dual bi-colour 90°		1	D19
36 501 0010	LED red 5mm 90°		1	D18
54 001 0005	Heatsink for D-PAK		4	Q3, Q7, Q10, Q12
57 501 0005	RCA 2pol/90° Ni white/red		1	CI1
57 503 0001	JACK STEREO 90°/6.35mm metal		1	JACK4
57 503 0003	JACK STEREO 90°/6.35mm stack		2	JACK1, JACK2
57 503 0005	JACK STEREO 90°/6.35mm small center		1	JACK3
57 505 0001	Connector lock 5p/0° M		3	J1, J2, J3
57 505 0002	Connector lock 3p/0° M		3	JP1, JP3, JP5
57 505 0004	Connector 3p/0° M		1	SW4
57 505 0010	Connector lock 4p/0° M		4	JP6, JP7, JP8, JP9
57 505 0012	Connector lock 2p/90° M		1	JP2
57 505 0014	Connector 2x3p/0° M		1	JP11
57 505 0015	Connector 2x5p/0° M		2	JP10, JP14
57 505 0017	Connector lock 6p/0° M		2	J4, JP4
57 505 0018	Connector 3p/90° M		1	JP13
57 510 0009	Shunt 2.54mm open top		2	JP4 on pin 2 and 3, SW4 on pin 2 and 3
57 510 0017	Mute circuit cable 160mm with Faston 2.8mm grey		1	PIN1
57 511 0001	Connector 10p/0° F		2	JP12, JP15
57 512 0001	Connector 40p/90° M		1	K1
66 001 0050	Print output MX00	4S	1	PCB1

10.7.0. 68 002 0050 OUTPUT UNIT MX1400/MX2200

			68 002 0050	
			Output unit MX1400/MX2200	
RC number	**Device**	**Package**	#	Ref. des.
02 001 1R00	Resistor 1R00 0.125W 1%	SMD 0805	3	R1, R2, R4
02 004 0R00	Resistor 0R00 0.063W 1%	SMD 0603	1	R39
02 004 47R0	Resistor 47R0 0.063W 1%	SMD 0603	2	R202, R210
02 004 120R	Resistor 120R 0.063W 1%	SMD 0603	4	R195, R196, R198, R201
02 004 150R	Resistor 150R 0.063W 1%	SMD 0603	6	R12, R15, R23, R26, R172, R176
02 004 220R	Resistor 220R 0.063W 1%	SMD 0603	8	R145, R150, R180, R183, R199, R205, R207, R215
02 004 390R	Resistor 390R 0.063W 1%	SMD 0603	3	R187, R192, R193
02 004 560R	Resistor 560R 0.063W 1%	SMD 0603	2	R81, R87
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	2	R32, R36
02 004 1k20	Resistor 1k20 0.063W 1%	SMD 0603	1	R230
02 004 1k80	Resistor 1k80 0.063W 1%	SMD 0603	2	R40, R41
02 004 2k20	Resistor 2k20 0.063W 1%	SMD 0603	11	R74, R80, R88, R94, R98, R101, R105, R109, R227, R228, R229
02 004 3k90	Resistor 3k09 0.063W 1%	SMD 0603	4	R147, R149, R159, R161
02 004 3k30	Resistor 3k30 0.063W 1%	SMD 0603	14	R7, R10, R17, R21, R55, R61, R154, R155, R156, R157, R164, R165, R166, R167

02 004 4k70	Resistor 4k70 0.063W 1%	SMD 0603	2	R5, R6
02 004 5k60	Resistor 5k60 0.063W 1%	SMD 0603	2	R60, R63
02 004 6k80	Resistor 6k80 0.063W 1%	SMD 0603	4	R135, R136, R142, R143
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	87	R8, R9, R11, R13, R14, R16, R18, R19, R20, R22, R24, R25, R27, R28, R29, R31, R33, R34, R35, R37, R43, R44, R45, R46, R47, R48, R49, R50, R56, R58, R66, R68, R69, R70, R71, R72, R75, R79, R89, R95, R111, R112, R113, R114, R115, R116, R117, R118, R121, R122, R123, R124, R127, R130, R131, R144, R146, R148, R158, R160, R169, R170, R171, R174, R175, R178, R185, R189, R190, R191, R194, R197, R200, R203, R206, R209, R211, R216, R217, R218, R219, R220, R221, R222, R223, R225, R226
02 004 12k0	Resistor 12k0 0.063W 1%	SMD 0603	4	R128, R129, R137, R138
02 004 15k0	Resistor 15k0 0.063W 1%	SMD 0603	6	R51, R52, R59, R64, R91, R107
02 004 33k0	Resistor 33k0 0.063W 1%	SMD 0603	8	R85, R96, R104, R110, R119, R125, R133, R139
02 004 47k0	Resistor 47k0 0.063W 1%	SMD 0603	6	R132, R141, R173, R177, R182, R184
02 004 100k	Resistor 100k 0.063W 1%	SMD 0603	3	R57, R62, R224
02 004 120k	Resistor 120k 0.063W 1%	SMD 0603	4	R120, R126, R134, R140
02 004 220k	Resistor 220k 0.063W 1%	SMD 0603	2	R186, R213
02 006 00R0	Resistor 00R0 0.250W 1%	SMD 1206	1	R84
02 006 10R0	Resistor 10R0 0.250W 1%	SMD 1206	2	R83, R103
02 006 120R	Resistor 120R 0.250W 1%	SMD 1206	1	R204
02 007 0001	Resistor array 4x10K0 5% 0.0625W	4x0603	3	RA1, RA2, RA4
02 508 22R0	Resistor 22R 3W 5%	D5.5xL15	4	R82, R86, R102, R106
02 511 18R0	Resistor 18R0 5W 10% axial	L22.4xW9.7xD8.6	2	R97, R99
04 003 04µ7	Capacitor electrolytic 4µ7/35V	B	2	C69, C78
04 004 0µ22	Capacitor 220n 50V 10%	SMD 0805	4	C72, C73, C81, C82
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	25	C1, C2, C13, C16, C21, C24, C31, C36, C41, C44, C53, C71, C77, C80, C85, C105, C112, C118, C138, C141, C145, C146, C156, C165, C167
04 007 10µ0	Capacitor eletrolitic 10µ/25V 20%	C	23	C9, C10, C19, C20, C47, C50, C52, C54, C58, C61, C70, C76, C90, C94, C98, C102, C106, C110, C116, C124, C131, C134, C137
04 009 22p0	Capacitor 22p0 50V 5%	SMD 0603	19	C6, C8, C15, C18, C28, C33, C37, C38, C64, C67, C74, C83, C87, C91, C96, C99, C103, C123, C136
04 009 47p0	Capacitor 47p0 50V 5%	SMD 0603	10	C30, C32, C39, C40, C49, C51, C55, C56, C178, C179
04 009 100p	Capacitor 100p 50V 5%	SMD 0603	4	C75, C79, C84, C86
04 009 220p	Capacitor 220p 50V 5%	SMD 0603	8	C4, C7, C14, C17, C59, C62, C130, C142
04 009 1n00	Capacitor 1n00 50V 5%	SMD 0603	2	C107, C117
04 010 22n0	Capacitor 22n0 25V 10%	SMD 0603	1	C181
04 010 47n0	Capacitor 47n0 25V 10%	SMD 0603	4	C93, C101, C109, C115
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	67	C3, C5, C11, C12, C22, C23, C25, C26, C27, C29, C34, C35, C42, C43, C45, C46, C57, C60, C63, C65, C66, C68, C88, C89, C92, C95, C97, C100, C104, C108, C111, C114, C121, C122, C126, C127, C129, C132, C133, C135, C139, C140, C143, C144, C147, C148, C151, C152, C153, C154, C155, C157, C158, C159, C160, C161, C164, C166, C168, C169, C170, C171, C172, C173, C174, C175, C176
04 013 68n0	Capacitor 68n0 16V 10%	SMD 0603	2	C113, C120
06 003 0001	Bead ferrite 1k @ 100MHz	SMD 0603	5	FB2, FB3, FB4, FB5, FB6
09 502 0002	Potmeter Rotative 2x100klin D-shaft 6mm 90°		2	P3, P4
09 502 0010	Potmeter Rotative 2x10klin D-shaft 6mm 90°		1	P1
09 502 0014	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC		2	P6, P7
09 502 0015	Potmeter Rotative 2x10klog D-shaft 6mm 90°		2	P2, P5

11 504 0003	Switch Push 2x4/90°		1	SW3
11 504 0004	Switch Push 2x2/90°		3	SW1, SW2, SW5
14 003 0001	Crystal oscillator 11.2896 MHZ 5V 50pF		1	XTO1
16 001 0005	Diode Schottky 200mA 1PS76SB10	SOD-323	1	D20
16 001 0007	Diode Schottky 400mA PMEG3020 or ZLLS400	SOD-323	2	D5, D12
16 001 0008	Diode BAS316	SOD-323	4	D6, D11, D13, D16
16 003 0003	Diode Zener 5V1	SOD-323	2	D2, D4
16 003 0005	Diode Zener 13V	SOD-323	2	D8, D10
16 004 0002	Diode TVS 18V bidirectional	SMB?	2	TZ1, TZ2
19 001 0001	Transistor 2SC4213-A	USM?	6	Q13, Q14, Q19, Q20, Q21, Q22
19 001 0003	Transistor Resistor equiped PDTC114EU	SOT-323	2	Q4, Q15
19 001 0004	Transistor BC846A	SOT-23	2	Q2, Q9
19 001 0005	Transistor BC847	SOT-23	2	Q17, Q18
19 001 0006	Transistor MJD122G	TO-252 DPAK	2	Q3, Q10
19 002 0001	Transistor BC856A	SOT-23	2	Q6, Q11
19 002 0003	Transistor Resistor equiped PDTA114EU	SOT-323	2	Q5, Q16
19 002 0004	Transistor MJD127G	TO-252 DPAK	2	Q7, Q12
19 005 0001	MOSFET P channel enhancement NDT452AP	SOT-223	1	Q1
19 006 0002	MOSFET N channel enhancement NDT3055L	SOT-223	1	Q8
24 001 0001	IC Dual opamp TL072CD	SO-8	4	U13, U17, U27, U29
24 001 0002	IC Quad opamp TL074CD	SO-14	7	U1, U2, U11, U18, U19, U20, U21
24 001 0004	IC Opamp NE5534D	SO-8	2	U15, U16
24 001 0007	IC Quad opamp rail to rail	SO-14	1	U30
24 001 0012	IC Quad opamp AD8674AR	SO-14	3	U5, U6, U7
24 002 0004	PVR +3.3V	SOT-23-5	1	U38
24 003 0005	IC Dual VCA WM8816		4	U3, U4, U8, U9
24 003 0008	IC Low power µP supervisory 4.65V SP707	SO-8	1	U37
26 002 0001	IC Quad buffer tri-state 74LCX125	SO-14	1	U33
26 002 0003	IC Triple 2 channel MUX 74HC4053	SO-16	5	U14, U22, U23, U24, U25
26 002 0004	IC Quad buffer tri-state 74HCT125	SO-14	1	U32
26 002 0007	IC Triple 3 input positive NAND gate 74HC10	SO-14	1	U36
30 001 0003	Microcontroller ATmega64 MX00 master 2.10	TQFP64	1	U31
36 002 0002	LED red	SMD 0603	1	D17
36 501 0009	LED dual bi-colour 90°		1	D19
54 001 0005	Heatsink for D-PAK		4	Q3, Q7, Q10, Q12
57 501 0005	RCA 2pol/90° Ni white/red		1	CI1
57 503 0001	JACK STEREO 90°/6.35mm metal		1	JACK4
57 503 0003	JACK STEREO 90°/6.35mm stack		2	JACK1, JACK2
57 503 0005	JACK STEREO 90°/6.35mm small center		1	JACK3
57 505 0001	Connector lock 5p/0° M		1	J1
57 505 0002	Connector lock 3p/0° M		1	JP3
57 505 0004	Connector 3p/0° M		1	SW4
57 505 0010	Connector lock 4p/0° M		3	JP6, JP8, JP9
57 505 0012	Connector lock 2p/90° M		1	JP2
57 505 0014	Connector 2x3p/0° M		1	JP11
57 505 0015	Connector 2x5p/0° M		2	JP10, JP14
57 505 0017	Connector lock 6p/0° M		1	J4
57 505 0018	Connector 3p/90° M		1	JP13
57 510 0009	Shunt 2.54mm open top		1	SW4 on pin 2 and 3
57 510 0017	Mute circuit cable 160mm with Faston 2.8mm grey		1	PIN1
57 511 0001	Connector 10p/0° F		2	JP12, JP15

57 512 0001	Connector 40p/90° M		1	K1
66 001 0050	Print output MX00	4S	1	PCB1
94 001 0076	Label 68 002 0050		1	On PCB text print 66 001 0050

10.8.0. 68 001 0051 LED VU SINGLE UNIT MX00

			68 001 0051	
			LED VU single unit MX00	
RC number	**Device**	**Package**	#	Ref. des.
02 004 0R00	Resistor 0R00 0.063W 1%	SMD 0603	4	R1, R49, R62, R64
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	2	R60, R61
02 004 2k70	Resistor 2k70 0.063W 1%	SMD 0603	2	R56, R57
02 004 3k30	Resistor 3k30 0.063W 1%	SMD 0603	22	R24, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R38, R40, R44, R46, R47, R48, R50, R51
02 004 4k70	Resistor 4k70 0.063W 1%	SMD 0603	10	R2, R3, R6, R7, R8, R9, R10, R11, R12, R13
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	4	R52, R54, R67, R68
02 004 18k0	Resistor 18k0 0.063W 1%	SMD 0603	4	R37, R39, R53, R55
02 004 22k0	Resistor 22k0 0.063W 1%	SMD 0603	2	R20, R21
02 004 56k0	Resistor 56k0 0.063W 1%	SMD 0603	2	R18, R19
02 004 91k0	Resistor 91k0 0.063W 1%	SMD 0603	2	R41, R42
02 004 100k	Resistor 100k 0.063W 1%	SMD 0603	4	R14, R15, R43, R45
02 004 220k	Resistor 220k 0.063W 1%	SMD 0603	2	R58, R59
02 004 680k	Resistor 680k 0.063W 1%	SMD 0603	2	R4, R5
02 004 1M00	Resistor 1M00 0.063W 1%	SMD 0603	2	R16, R17
02 503 0R00	Resistor 0R00 0.6W 1%	D2.3xL6.3 p11	1	R66
04 002 02µ2	Capacitor electrolytic 2µ2/50V	B	8	C2, C4, C9, C10, C14, C16, C19, C20
04 003 04µ7	Capacitor electrolytic 4µ7/35V	B	6	C7, C8, C13, C15, C23, C25
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	3	C17, C18, C21
04 006 47µ0	Capacitor electrolitic 47µ/16V 20%	D	1	C22
04 009 1n00	Capacitor 1n00 50V 5%	SMD 0603	2	C3, C12
04 010 22n0	Capacitor 22n0 25V 10%	SMD 0603	2	C5, C6
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	2	C1, C11
16 001 0008	Diode BAS316	SOD-323	2	D43, D44
16 003 0006	Diode Zener 2V7 500mW	SOD-323	1	D1
19 001 0005	Transistor BC847	SOT-23	2	Q1, Q2
19 002 0003	Transistor Resistor equiped PDTA114EU	SOT-323	2	Q3, Q4
24 001 0002	IC Quad opamp TL074CD	SO-14	1	U1
24 002 0006	NVR -15V 100mA	SO-8	1	U7
24 003 0001	IC Dot bar display driver LB1412	MFP-24	2	U2, U3
24 003 0009	IC Dot bar display driver LB1409		2	U4, U5
36 501 0011	LED rectangle green 6,3 x 1,5	6,3x1,5	28	D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39
36 501 0012	LED rectangle red 6,3 x 1,5	6,3x1,5	8	D2, D3, D4, D5, D6, D7, D8, D9
36 501 0013	LED rectangle yellow 6,3 x 1,5	6,3x1,5	4	D10, D11, D41, D42
57 504 0010	Flatcable 3p 220mm 2,54mm 26AWG 1con		2	JP1, JP2
66 001 0051	Print LED VU MX00	DS	1	PCB1

10.9.0. 68 002 0051 LED VU DUAL UNIT MX00

			68 002 0051	
			LED VU dual unit MX00	
RC number	**Device**	**Package**	#	Ref. des.
02 004 0R00	Resistor 0R00 0.063W 1%	SMD 0603	8	R1, R1, R49, R49, R62, R62, R64, R64
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	4	R60, R60, R61, R61
02 004 2k70	Resistor 2k70 0.063W 1%	SMD 0603	4	R56, R56, R57, R57
02 004 3k30	Resistor 3k30 0.063W 1%	SMD 0603	40	R24, R24, R26, R26, R27, R27, R28, R28, R29, R29, R30, R30, R31, R31, R32, R32, R33, R33, R34, R34, R35, R35, R36, R36, R38, R38, R40, R40, R44, R44, R46, R46, R47, R47, R48, R48, R50, R50, R51, R51
02 004 4k70	Resistor 4k70 0.063W 1%	SMD 0603	20	R2, R2, R3, R3, R6, R6, R7, R7, R8, R8, R9, R9, R10, R10, R11, R11, R12, R12, R13, R13
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	8	R52, R52, R54, R54, R67, R67, R68, R68
02 004 18k0	Resistor 18k0 0.063W 1%	SMD 0603	8	R37, R37, R39, R39, R53, R53, R55, R55
02 004 22k0	Resistor 22k0 0.063W 1%	SMD 0603	4	R20, R20, R21, R21
02 004 56k0	Resistor 56k0 0.063W 1%	SMD 0603	4	R18, R18, R19, R19
02 004 91k0	Resistor 91k0 0.063W 1%	SMD 0603	2	R41, R41, R42, R42
02 004 100k	Resistor 100k 0.063W 1%	SMD 0603	8	R14, R14, R15, R15, R43, R43, R45, R45
02 004 220k	Resistor 220k 0.063W 1%	SMD 0603	4	R58, R58, R59, R59
02 004 680k	Resistor 680k 0.063W 1%	SMD 0603	4	R4, R4, R5, R5
02 004 1M00	Resistor 1M00 0.063W 1%	SMD 0603	4	R16, R16, R17, R17
02 503 0R00	Resistor 0R00 0.6W 1%	D2.3xL6.3 p11	2	R66, R66
04 002 02µ2	Capacitor electrolytic 2µ2/50V	B	16	C2, C2, C4, C4, C9, C9, C10, C10, C14, C14, C16, C16, C19, C19, C20, C20
04 003 04µ7	Capacitor electrolytic 4µ7/35V	B	12	C7, C7, C8, C8, C13, C13, C15, C15, C23, C23, C25, C25
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	6	C17, C17, C18, C18, C21, C21
04 006 47µ0	Capacitor electrolitic 47µ/16V 20%	D	2	C22, C22
04 009 1n00	Capacitor 1n00 50V 5%	SMD 0603	4	C3, C3, C12, C12
04 010 22n0	Capacitor 22n0 25V 10%	SMD 0603	4	C5, C5, C6, C6
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	4	C1, C1, C11, C11
16 001 0008	Diode BAS316	SOD-323	4	D43, D43, D44, D44
16 003 0006	Diode Zener 2V7 500mW	SOD-323	2	D1, D1
19 001 0005	Transistor BC847	SOT-23	4	Q1, Q1, Q2, Q2
19 002 0003	Transistor Resistor equiped PDTA114EU	SOT-323	4	Q3, Q3, Q4, Q4
24 001 0002	IC Quad opamp TL074CD	SO-14	2	U1, U1
24 002 0006	NVR -15V 100mA	SO-8	2	U7, U7
24 003 0001	IC Dot bar display driver LB1412	MFP-24	4	U2, U2, U3, U3
24 003 0009	IC Dot bar display driver LB1409		4	U4, U4, U5, U5
36 501 0011	LED rectangle green 6,3 x 1,5	6,3x1,5	56	D12, D12, D13, D13, D14, D14, D15, D15, D16, D16, D17, D17, D18, D18, D19, D19, D20, D20, D21, D21, D22, D22, D23, D23, D24, D24, D25, D25, D26, D26, D27, D27, D28, D28, D29, D29, D30, D30, D31, D31, D32, D32, D33, D33, D34, D34, D35, D35, D36, D36, D37, D37, D38, D38, D39, D39
36 501 0012	LED rectangle red 6,3 x 1,5	6,3x1,5	16	D2, D2, D3, D3, D4, D4, D5, D5, D6, D6, D7, D7, D8, D8, D9, D9
36 501 0013	LED rectangle yellow 6,3 x 1,5	6,3x1,5	8	D10, D10, D11, D11, D41, D41, D42, D42
51 504 0002	Wirejumper 5mm		3	JP3, JP4
57 504 0010	Flatcable 3p 220mm 2,54mm 26AWG 1con		3	JP1, JP1, JP2

66 001 0051	Print LED VU MX00	DS	2	PCB1, PCB2
94 001 0077	Label 68 002 0051		1	On PCB text print 66 001 0051

10.10.0.68 001 0052 ALARM MUSIC MUTE_PRIORITY IN UNIT MX00

			68 001 0052	
			Alarm/mute/priority unit MX00	
RC number	**Device**	**Package**	#	Ref. des.
02 501 0k10	Resistor 100R 0.4W 5%	D2.5xL6.5 p11	1	R3
02 501 010k	Resistor 10k 0.4W 5%	D2.5xL6.5 p11	4	R1, R2, R4, R5
04 502 0µ10	Capacitor film 100n/63V 10%	B2.5xL7.2 p5	4	C2, C3, C4, C5
04 508 10µ0	Capacitor electrolytic 10µ/50V radial	D5xH11 p5	2	C6, C7
09 502 0012	Potmeter Rotative 2x100klog knurl-shaft 90°		1	P2
16 501 0002	Diode 1N4148		1	D3
16 501 0003	Diode 1N4001		2	D1, D2
16 503 0002	Diode Zener 5V1		1	D5
24 502 0008	IC PVR 78L05	TO-92	1	U2
48 503 050m	Polyswitch radial 0.05A	p=5,08	2	F1, F2
57 501 0011	RCA 2pol/90° Ni white/red horizontal		1	CI1
57 504 0040	Flatcable 6p 120mm 2,54mm 26AWG 1con		1	JP1
57 513 0001	Header PCB 4pole 5.08 horizontal with open ends		1	J1
57 513 0002	Plug 4pole 5.08 vertical cable entry with screw		1	J1
66 001 0052	Print alarm/mute/priority MX00		1	PCB1

10.11.0.68 001 0053 USB I/O UNIT MX00

			68 001 0053	
			USB I/O unit MX00	
RC number	**Device**	**Package**	#	Ref. des.
02 004 22R0	Resistor 22R0 0.063W 1%	SMD 0603	2	R13, R14
02 004 47R0	Resistor 47R0 0.063W 1%	SMD 0603	1	R17
02 004 150R	Resistor 150R 0.063W 1%	SMD 0603	2	R3, R7
02 004 470R	Resistor 470R 0.063W 1%	SMD 0603	1	R2
02 004 1k00	Resistor 1k00 0.063W 1%	SMD 0603	4	R4, R6, R8, R9
02 004 1k50	Resistor 1k50 0.063W 1%	SMD0603	1	R1
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	3	R5, R10, R15
02 004 47k0	Resistor 47k0 0.063W 1%	SMD 0603	2	R11, R12
02 004 1M00	Resistor 1M00 0.063W 1%	SMD 0603	1	R16
04 006 10µ0	Capacitor electrolitic 10µ/16V	B	5	C2, C5, C6, C10, C16
04 009 22p0	Capacitor 22p0 50V 5%	SMD 0603	4	C8, C9, C11, C12
04 011 100n	Capacitor 100n 50V 10%	SMD 0603	2	C7, C17
04 017 01µ0	Capacitor 1µ0 10V -20%/+80%	SMD 0603	6	C1, C13, C14, C15, C18, C19
06 003 0001	Bead ferrite 1k @ 100MHz	SMD 0603	2	FB1, FB2
14 501 0003	Crystal 12,0MHz	HC49/U	1	Y1
16 001 0005	Diode Schottky 200mA 1PS76SB10	SOD-323	1	D2
19 001 0001	Transistor 2SC4213-A	USM?	2	Q2, Q3

19 002 0003	Transistor Resistor equiped PDTA114EU	SOT-323	1	Q1
24 006 0004	IC Audio CODEC 2in / 2out with USB PCM2900	SSOP-28	1	U1
24 502 0009	IC PVR +3,3V 100mA	TO-92	1	U2
36 002 0002	LED red	SMD 0603	1	D1
57 510 0013	Earth terminal PCB 90° M3		1	CHC1
57 514 0001	USB B single connector 90° PCB 4pole		1	CN1
57 515 0001	Connector 2x3p/90° F		1	JP1
66 001 0053	Print USB I/O MX00	DS	1	PCB1

10.12.0.68 001 0054 SYMMETRICAL OUTPUT UNIT WITH MUTE MX00

			68 001 0054	
			Symmetrical output unit with mute	
RC number	**Device**	**Package**	#	Ref. des.
02 004 10k0	Resistor 10k0 0.063W 1%	SMD 0603	4	
02 502 022R	Resistor Fuse 22R 0.5W 5%	D2.5xL6.5 p11	2	R1, R2
04 012 100n	Capacitor 100n 25V +80%/-20%	SMD 0603	4	C3, C4, C5, C6
04 506 47µ0	Capacitor electrolytic 47µ/25V radial	D5xH11 p5	2	C1, C2
04 509 4µ70	Capacitor electrolytic 4µ7/63V radial	D5xH11 p5	4	C7, C8, C9, C10
16 004 0002	Diode TVS 18V bidirectional	SMB	4	D1, D2, D3, D4
19 001 0001	Transistor 2SC4213-A	USM	4	T1, T2, T3, T4
24 003 0010	IC Balanced line driver	SO-8	2	U1, U2
51 504 0003	Wirejumper 10mm		1	
57 502 0003	XLR 3pol/90°right M		2	XLR1, XLR2
57 504 0006	Flatcable 3p 150mm 2,54mm 26AWG 1con		1	J2
57 504 0013	Flatcable 4p 220mm 2,54mm 26AWG 1con		1	J1
57 505 0002	Connector lock 3p/0° M		1	J3
66 001 0054	Print Symmetrical output with mute	SS	1	PCB1

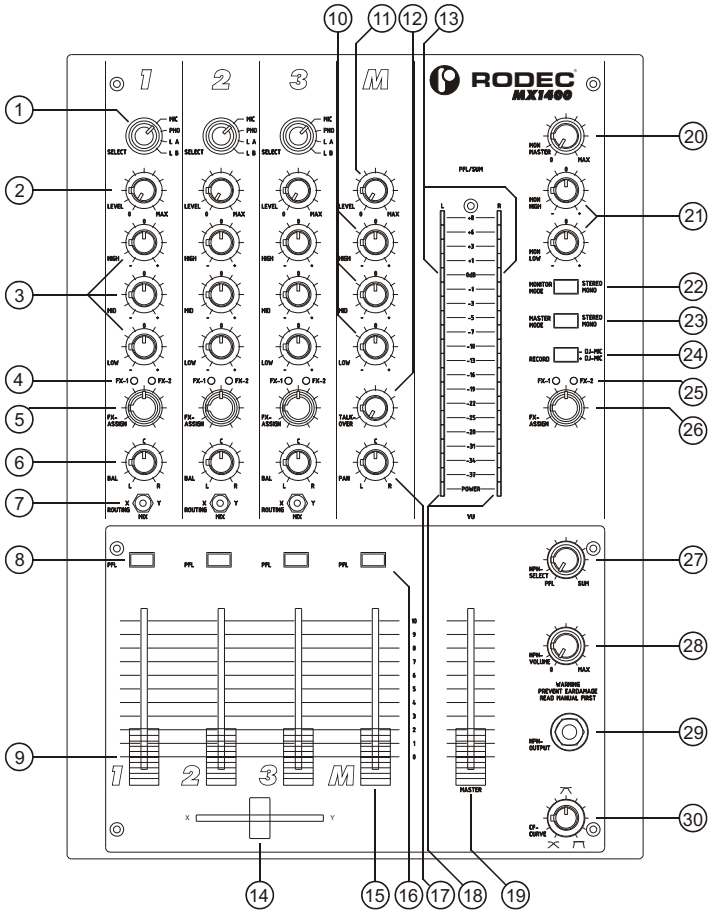
10.13.0.68 001 0055 RCA FRONT UNIT MX3000

			68 001 0055	
			RCA front unit MX3000	
RC number	**Device**	**Package**	#	Ref. des.
57 501 0007	RCA 2pol/90° Ni red/white horizontal		1	RCA1
57 504 0010	Flatcable 3p 220mm 2,54mm 26AWG 1con		1	J1
66 001 0055	Print RCA front MX3000	SS	1	PCB1

11.0.0. PARTS DISCRIPTION

11.1.0. MX1400

11.1.1. FRONT VIEW

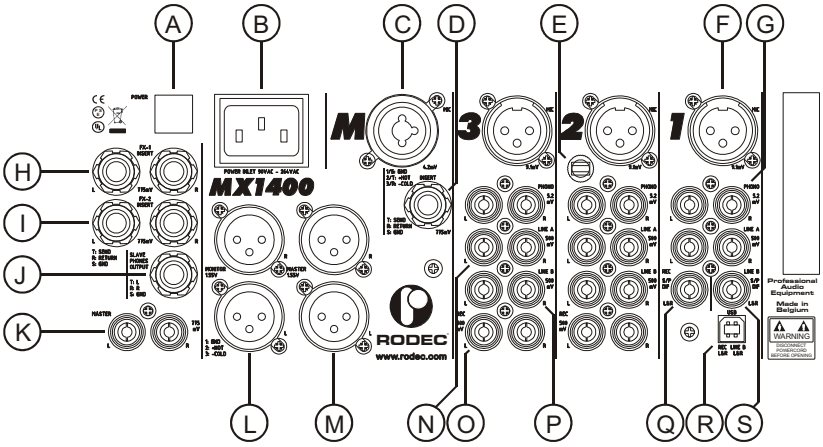


11.1.2. FRONT PART ORDER NUMBERS

Number	Device	Order code	Function
1	Switch Rotative 2x4pos D-shaft 6mm	11 501 0001	Input select switch
1	Knob Push-on Soft Black/White 12mm 315°	63 001 0005	Input select knob
2	Potmeter Rotative 2x100klog D-shaft 6mm 90°	09 502 0001	Level potentiometer
2	Knob RODEC Soft Black/Red 10mm 180°/12	63 001 0022	Level knob
3	Potmeter Rotative 2x10kalog D-shaft 6mm 90°	09 502 0013	High/Mid/Low potentiometer
3	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Mid/Low knob
4	LED dual bi-colour 90°	36 501 0009	FX-1+FX-2 LEDs
5	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	FX-assign potentiometer
5	Knob RODEC Soft Black/Blue 12mm 180°/12	63 001 0031	FX-assign knob
6	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	Balance potentiometer
6	Knob RODEC Soft Black/Yellow 10mm 180°/12	63 001 0024	Balance knob
7	Switch Toggle 1x3/90°	11 502 0007	Crossfader assign switch
8	Switch Push 2x2/90° mom with green LED	11 504 0007	PFL momentary switch
8	Pushknob Rectangle transparent white 5,5x10x6,0	63 004 0005	PFL button
9	HD 60mm fader 0° 1x10klin T-shaft DC 150mm NoDB	86 001 0002	Channel fader

9	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
9	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
10	Potmeter Rotative 1x100klin D-shaft 6mm 90°	09 502 0004	High/Mid/Low potentiometer
10	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Mid/Low knob
11	Potmeter Rotative 2x100klog D-shaft 6mm 90°	09 502 0001	Level potentiometer
11	Knob RODEC Soft Black/Red 10mm 180°/12	63 001 0022	Level knob
12	Potmeter Rotative 1x100klog D-shaft 6mm 90°	09 502 0016	Talk-over potentiometer
12	Knob RODEC Soft Black/White 10mm 180°/12	63 001 0025	Talk-over knob
13	LED rectangle red 6,3 x 1,5	36 501 0012	Red VU-meter LED
13	LED rectangle yellow 6,3 x 1,5	36 501 0013	Yellow VU-meter LED
13	LED rectangle green 6,3 x 1,5	36 501 0011	Green VU-meter LED
14	Fader unit SCRATCHBOX	68 001 0044	Crossfader
14	Knob Black 18x7x11 shaft=1.2x4	63 003 0002	Crossfader knob
14	Bold M3x5 black recessed	71 001 0016	Crossfader mounting screw
15	HD 60mm fader 0° 2x10klog T-shaft DC 150mm	86 001 0003	Microphone channel fader
15	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
15	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
16	Switch Push 2x2/90° mom with green LED	11 504 0007	PFL momentary switch
16	Pushknob Rectangle transparent white 5,5x10x6,0	63 004 0005	PFL button
17	Potmeter Rotative 1x100klin D-shaft 6mm 90°	09 502 0004	Panorama potentiometer
17	Knob RODEC Soft Black/Yellow 10mm 180°/12	63 001 0024	Panorama button
18	LED rectangle yellow 6,3 x 1,5	36 501 0013	Yellow power indicator LED
19	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	86 001 0004	Master fader
19	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
19	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
20	Potmeter Rotative 2x10klog D-shaft 6mm 90°	09 502 0015	Master potentiometer
20	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Master knob
21	Potmeter Rotative 2x100klin D-shaft 6mm 90°	09 502 0002	High/Low potentiometer
21	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Low knob
22	Switch Push 2x2/90°	11 504 0004	Monitor mode switch
22	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Monitor mode knob
23	Switch Push 2x4/90°	11 504 0003	Master mode switch
23	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Master mode knob
24	Switch Push 2x2/90°	11 504 0004	Record mode switch
24	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Record mode knob
25	LED dual bi-colour 90°	36 501 0009	FX-1+FX-2 LEDs
26	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	FX-assign potentiometer
26	Knob RODEC Soft Black/Blue 12mm 180°/12	63 001 0031	FX-assign knob
27	Potmeter Rotative 2x10klin D-shaft 6mm 90°	09 502 0010	Headphones select potentiometer
27	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Headphones select button
28	Potmeter Rotative 2x10klog D-shaft 6mm 90°	09 502 0015	Headphones volume potentiometer
28	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Headphones volume button
29	JACK STEREO 90°/6.35mm metal	57 503 0001	Headphones JACK connector
30	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	Crossfader curve potentiometer
30	Knob RODEC Soft Black/Wine red 10mm 180°/12	63 001 0039	Crossfader curve button
	Frontpanel MX1400	74 001 0035	Frontpanel MX1400
	Frontpanel overlay MX1400	74 001 0039	Frontpanel overlay MX1400
	Bold M3x5 stainless recessed	71 001 0018	Overlay mouting screws

11.1.3. BACK VIEW

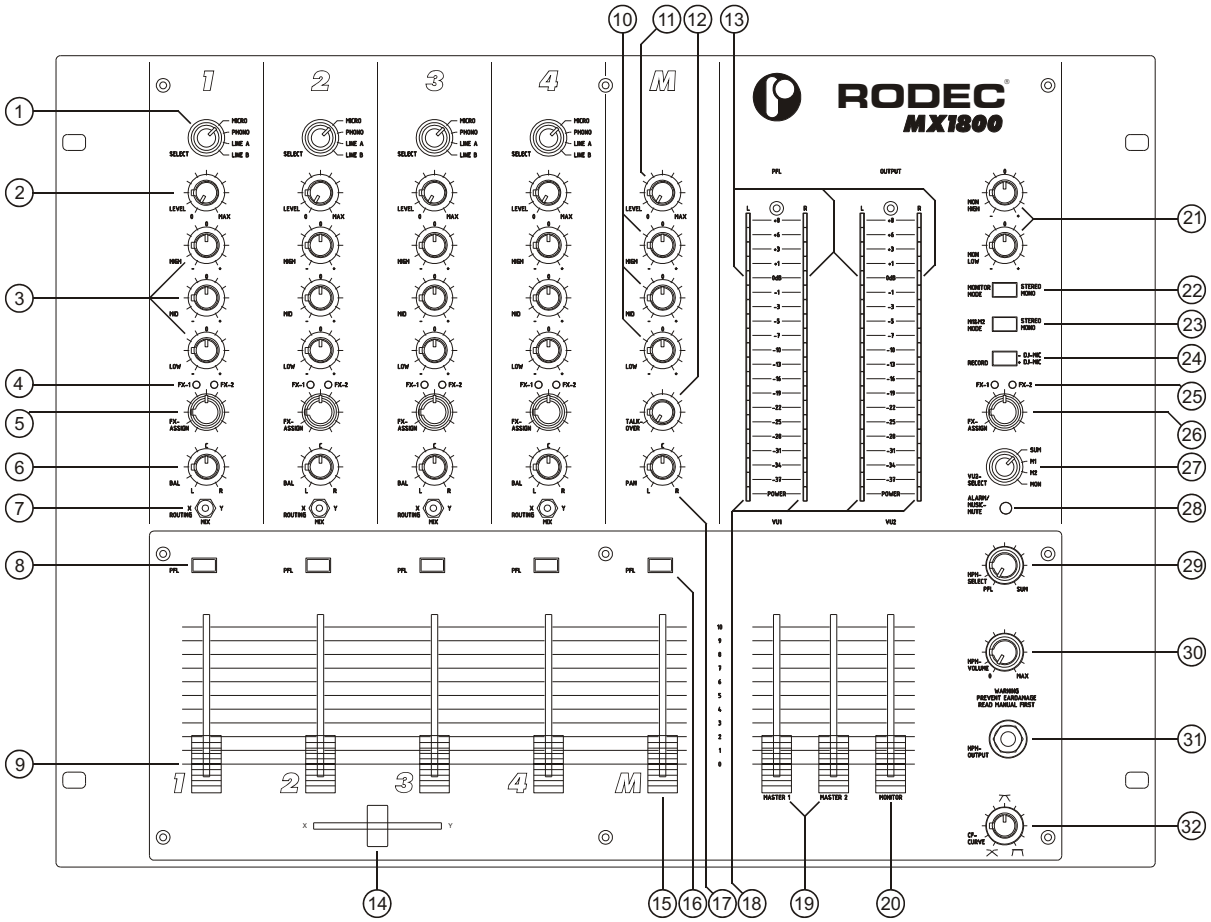


11.1.4. BACK PART ORDER NUMBERS

Number	Device	Order code	Function
A	Switch Push 2x2/90°	11 504 0004	Power switch
A	Pushknob square black	63 004 0001	Power button
B	Mains IEC connector snap-in with faston	57 508 0002	Mains inlet
C	COMBO XLR-JACK 6p??? 90°	57 502 0006	Microphone combo connector
C	Hi-Lo 3.2x6.0	71 001 0014	Combo connector mounting screw
D	JACK STEREO 90°/6.35mm small center	57 503 0005	Insert JACK connector
E	Earth terminal	57 510 0001	Earth terminal
F	XLR 3pol/90°right F	57 502 0002	XLR 3pole input connector
F	Hi-Lo 3.2x6.0	71 001 0014	XLR connector mounting screw
G	RCA 2pol/90° Au white/red	57 501 0006	RCA gold connector white+red
G	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
H+I	JACK STEREO 90°/6.35mm stack	57 503 0003	FX connector
J	JACK STEREO 90°/6.35mm small center	57 503 0005	Headphones JACK connector
K	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
K	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
L+M	XLR 3pol/90°right M	57 502 0003	XLR 3pole output connector
L+M	Hi-Lo 3.2x6.0	71 001 0014	XLR connector mounting screw
N	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
N	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
O	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
O	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
P	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
P	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
Q&S	RCA 2pol/90° Ni orange/orange	57 501 0010	RCA connector orange+orange
Q&S	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
R	USB B single connector 90° PCB 4pole	57 514 0001	USB B connector
	Connection panel MX1400	74 002 0009	Back panel MX1400

11.2.0. MX1800

11.2.1. FRONT VIEW



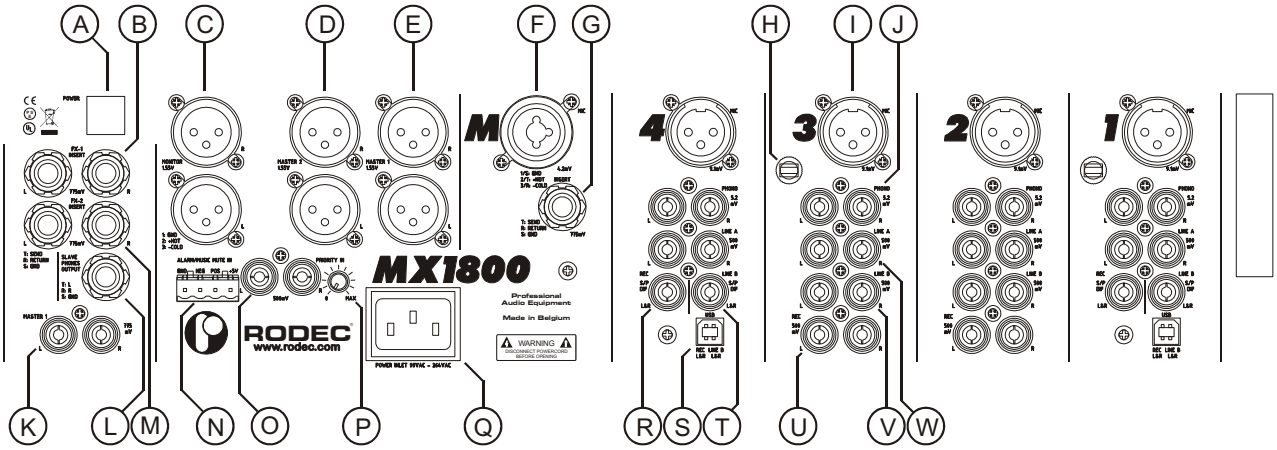
11.2.2. FRONT PART ORDER NUMBERS

Number	Device	Order code	Function
1	Switch Rotative 2x4pos D-shaft 6mm	11 501 0001	VU-2 select switch
1	Knob Push-on Soft Black/White 12mm 315°	63 001 0005	Knob black-white
2	Potmeter Rotative 2x100klog D-shaft 6mm 90°	09 502 0001	Level potentiometer
2	Knob RODEC Soft Black/Red 10mm 180°/12	63 001 0022	Level knob
3	Potmeter Rotative 2x10kalog D-shaft 6mm 90°	09 502 0013	High/Mid/Low potentiometer
3	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Mid/Low knob
4	LED dual bi-colour 90°	36 501 0009	FX-1+FX-2 LEDs
5	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	FX-assign potentiometer
5	Knob RODEC Soft Black/Blue 12mm 180°/12	63 001 0031	FX-assign knob
6	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	Balance potentiometer
6	Knob RODEC Soft Black/Yellow 10mm 180°/12	63 001 0024	Balance knob
7	Switch Toggle 1x3/90°	11 502 0007	Crossfader assign switch
8	Switch Push 2x2/90° mom with green LED	11 504 0007	PFL momentary switch
8	Pushknob Rectangle transparent white 5,5x10x6,0	63 004 0005	PFL button
9	HD 60mm fader 0° 1x10klin T-shaft DC 150mm NoDB	86 001 0002	Channel fader
9	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob

9	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
10	Potmeter Rotative 1x100klin D-shaft 6mm 90°	09 502 0004	High/Mid/Low potentiometer
10	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Mid/Low knob
11	Potmeter Rotative 2x100klog D-shaft 6mm 90°	09 502 0001	Level potentiometer
11	Knob RODEC Soft Black/Red 10mm 180°/12	63 001 0022	Level knob
12	Potmeter Rotative 1x100klog D-shaft 6mm 90°	09 502 0016	Talk-over potentiometer
12	Knob RODEC Soft Black/White 10mm 180°/12	63 001 0025	Talk-over knob
13	LED rectangle red 6,3 x 1,5	36 501 0012	Red VU-meter LED
13	LED rectangle yellow 6,3 x 1,5	36 501 0013	Yellow VU-meter LED
13	LED rectangle green 6,3 x 1,5	36 501 0011	Green VU-meter LED
14	Fader unit SCRATCHBOX	68 001 0044	Crossfader
14	Knob Black 18x7x11 shaft=1.2x4	63 003 0002	Crossfader knob
14	Bold M3x5 black recessed	71 001 0016	Crossfader mounting screw
15	HD 60mm fader 0° 2x10klog T-shaft DC 150mm	86 001 0003	Microphone channel fader
15	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
15	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
16	Switch Push 2x2/90° mom with green LED	11 504 0007	PFL momentary switch
16	Pushknob Rectangle transparent white 5,5x10x6,0	63 004 0005	PFL button
17	Potmeter Rotative 1x100klin D-shaft 6mm 90°	09 502 0004	Panorama potentiometer
17	Knob RODEC Soft Black/Yellow 10mm 180°/12	63 001 0024	Panorama button
18	LED rectangle yellow 6,3 x 1,5	36 501 0013	Yellow power indicator LED
19	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	86 001 0004	Master fader
19	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
19	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
20	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	86 001 0004	Monitor fader
20	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
20	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
21	Potmeter Rotative 2x100klin D-shaft 6mm 90°	09 502 0002	High/Low potentiometer
21	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Low knob
22	Switch Push 2x2/90°	11 504 0004	Monitor mode switch
22	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Monitor mode knob
23	Switch Push 2x4/90°	11 504 0003	Master mode switch
23	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Master mode knob
24	Switch Push 2x2/90°	11 504 0004	Record mode switch
24	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Record mode knob
25	LED dual bi-colour 90°	36 501 0009	FX-1+FX-2 LEDs
26	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	FX-assign potentiometer
26	Knob RODEC Soft Black/Blue 12mm 180°/12	63 001 0031	FX-assign knob
27	Switch Rotative 2x4pos D-shaft 6mm	11 501 0001	VU-2 select switch
27	Knob RODEC Soft Black/White 12mm 315°/14	63 001 0026	VU-2 select button
28	LED red 5mm 90°	36 501 0010	Alarm/Music-mute LED
29	Potmeter Rotative 2x10klin D-shaft 6mm 90°	09 502 0010	Headphones select potentiometer
29	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Headphones select button
30	Potmeter Rotative 2x10klog D-shaft 6mm 90°	09 502 0015	Headphones volume potentiometer
30	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Headphones volume button
31	JACK STEREO 90°/6.35mm metal	57 503 0001	Headphones JACK connector
32	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	Crossfader curve potentiometer
32	Knob RODEC Soft Black/Wine red 10mm	63 001 0039	Crossfader curve button

	180°/12		
	Frontpanel MX1800	74 001 0036	Frontpanel MX1800
	Frontpanel overlay MX1800	74 001 0040	Frontpanel overlay MX1800
	Bold M3x5 stainless recessed	71 001 0018	Overlay mouting screws

11.2.3. BACK VIEW



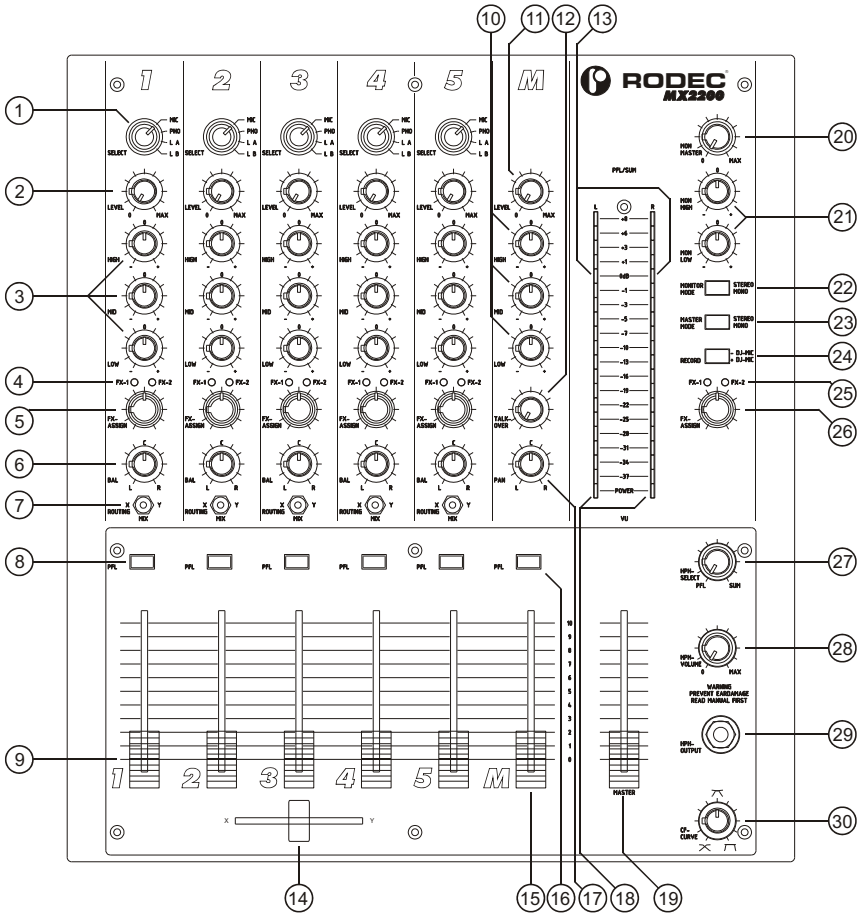
11.2.4. BACK PART ORDER NUMBERS

Number	Device	Order code	Function
A	Switch Push 2x2/90°	11 504 0004	Power switch
A	Pushknob square black	63 004 0001	Power button
B	JACK STEREO 90°/6.35mm stack	57 503 0003	FX connector
C+D+E	XLR 3pol/90°right M	57 502 0003	XLR 3pole output connector
C+D+E	Hi-Lo 3.2x6.0	71 001 0014	XLR connector mounting screw
F	COMBO XLR-JACK 6p??? 90°	57 502 0006	Microphone combo connector
F	Hi-Lo 3.2x6.0	71 001 0014	Combo connector mounting screw
G	JACK STEREO 90°/6.35mm small center	57 503 0005	Insert JACK connector
H	Earth terminal	57 510 0001	Earth terminal
I	XLR 3pol/90°right F	57 502 0002	XLR 3pole input connector
I	Hi-Lo 3.2x6.0	71 001 0014	XLR connector mounting screw
J	RCA 2pol/90° Au white/red	57 501 0006	RCA gold connector white+red
J	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
K	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
K	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
L	JACK STEREO 90°/6.35mm small center	57 503 0005	Headphones JACK connector
M	JACK STEREO 90°/6.35mm stack	57 503 0003	FX connector
N	Header PCB 4pole 5.08 horizontal with open ends	57 513 0001	Alarm connector chassis piece
N	Plug 4pole 5.08 vertical cable entry with screw	57 513 0002	Alarm connector cable piece
O	RCA 2pol/90° Ni white/red horizontal	57 501 0011	RCA connector white+red
O	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
P	Potmeter Rotative 2x100klog knurl-shaft 90°	09 502 0012	Level potentiometer
Q	Mains IEC connector snap-in with faston	57 508 0002	Mains inlet
R&T	RCA 2pol/90° Ni orange/orange	57 501 0010	RCA connector orange+orange
R&T	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
S	USB B single connector 90° PCB 4pole	57 514 0001	USB B connector
U	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
U	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw

V	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
V	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
W	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
W	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
	Connection panel MX1800	74 002 0010	Back panel MX1800

11.3.0. MX2200

11.3.1. FRONT VIEW



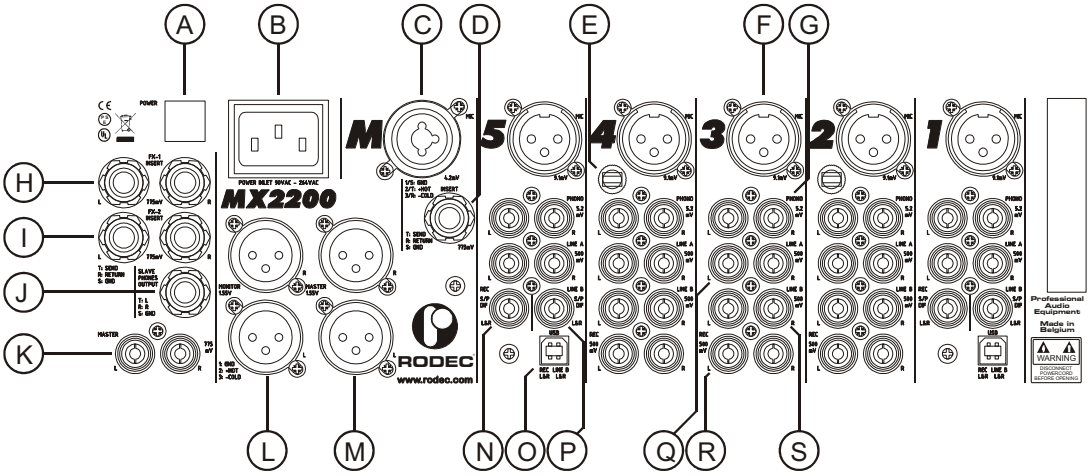
11.3.2. FRONT PART ORDER NUMBERS

Number	Device	Order code	Function
1	Switch Rotative 2x4pos D-shaft 6mm	11 501 0001	Input select switch
1	Knob Push-on Soft Black/White 12mm 315°	63 001 0005	Input select knob
2	Potmeter Rotative 2x100klog D-shaft 6mm 90°	09 502 0001	Level potentiometer
2	Knob RODEC Soft Black/Red 10mm 180°/12	63 001 0022	Level knob
3	Potmeter Rotative 2x10kalog D-shaft 6mm 90°	09 502 0013	High/Mid/Low potentiometer
3	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Mid/Low knob
4	LED dual bi-colour 90°	36 501 0009	FX-1+FX-2 LEDs
5	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	FX-assign potentiometer
5	Knob RODEC Soft Black/Blue 12mm 180°/12	63 001 0031	FX-assign knob
6	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	Balance potentiometer
6	Knob RODEC Soft Black/Yellow 10mm	63 001 0024	Balance knob

	180°/12		
7	Switch Toggle 1x3/90°	11 502 0007	Crossfader assign switch
8	Switch Push 2x2/90° mom with green LED	11 504 0007	PFL momentary switch
8	Pushknob Rectangle transparent white 5,5x10x6,0	63 004 0005	PFL button
9	HD 60mm fader 0° 1x10klin T-shaft DC 150mm NoDB	86 001 0002	Channel fader
9	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
9	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
10	Potmeter Rotative 1x100klin D-shaft 6mm 90°	09 502 0004	High/Mid/Low potentiometer
10	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Mid/Low knob
11	Potmeter Rotative 2x100klog D-shaft 6mm 90°	09 502 0001	Level potentiometer
11	Knob RODEC Soft Black/Red 10mm 180°/12	63 001 0022	Level knob
12	Potmeter Rotative 1x100klog D-shaft 6mm 90°	09 502 0016	Talk-over potentiometer
12	Knob RODEC Soft Black/White 10mm 180°/12	63 001 0025	Talk-over knob
13	LED rectangle red 6,3 x 1,5	36 501 0012	Red VU-meter LED
13	LED rectangle yellow 6,3 x 1,5	36 501 0013	Yellow VU-meter LED
13	LED rectangle green 6,3 x 1,5	36 501 0011	Green VU-meter LED
14	Fader unit SCRATCHBOX	68 001 0044	Crossfader
14	Knob Black 18x7x11 shaft=1.2x4	63 003 0002	Crossfader knob
14	Bold M3x5 black recessed	71 001 0016	Crossfader mounting screw
15	HD 60mm fader 0° 2x10klog T-shaft DC 150mm	86 001 0003	Microphone channel fader
15	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
15	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
16	Switch Push 2x2/90° mom with green LED	11 504 0007	PFL momentary switch
16	Pushknob Rectangle transparent white 5,5x10x6,0	63 004 0005	PFL button
17	Potmeter Rotative 1x100klin D-shaft 6mm 90°	09 502 0004	Panorama potentiometer
17	Knob RODEC Soft Black/Yellow 10mm 180°/12	63 001 0024	Panorama button
18	LED rectangle yellow 6,3 x 1,5	36 501 0013	Yellow power indicator LED
19	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	86 001 0004	Master fader
19	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
19	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
20	Potmeter Rotative 2x10klog D-shaft 6mm 90°	09 502 0015	Master potentiometer
20	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Master knob
21	Potmeter Rotative 2x100klin D-shaft 6mm 90°	09 502 0002	High/Low potentiometer
21	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Low knob
22	Switch Push 2x2/90°	11 504 0004	Monitor mode switch
22	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Monitor mode knob
23	Switch Push 2x4/90°	11 504 0003	Master mode switch
23	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Master mode knob
24	Switch Push 2x2/90°	11 504 0004	Record mode switch
24	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Record mode knob
25	LED dual bi-colour 90°	36 501 0009	FX-1+FX-2 LEDs
26	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	FX-assign potentiometer
26	Knob RODEC Soft Black/Blue 12mm 180°/12	63 001 0031	FX-assign knob
27	Potmeter Rotative 2x10klin D-shaft 6mm 90°	09 502 0010	Headphones select potentiometer
27	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Headphones select button
28	Potmeter Rotative 2x10klog D-shaft 6mm 90°	09 502 0015	Headphones volume potentiometer
28	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Headphones volume button
29	JACK STEREO 90°/6.35mm metal	57 503 0001	Headphones JACK connector

30	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	Crossfader curve potentiometer
30	Knob RODEC Soft Black/Wine red 10mm 180°/12	63 001 0039	Crossfader curve button
	Frontpanel MX2200	74 001 0036	Frontpanel MX2200
	Frontpanel overlay MX2200	74 001 0040	Frontpanel overlay MX2200
	Bold M3x5 stainless recessed	71 001 0018	Overlay mouting screws

11.3.3. BACK VIEW

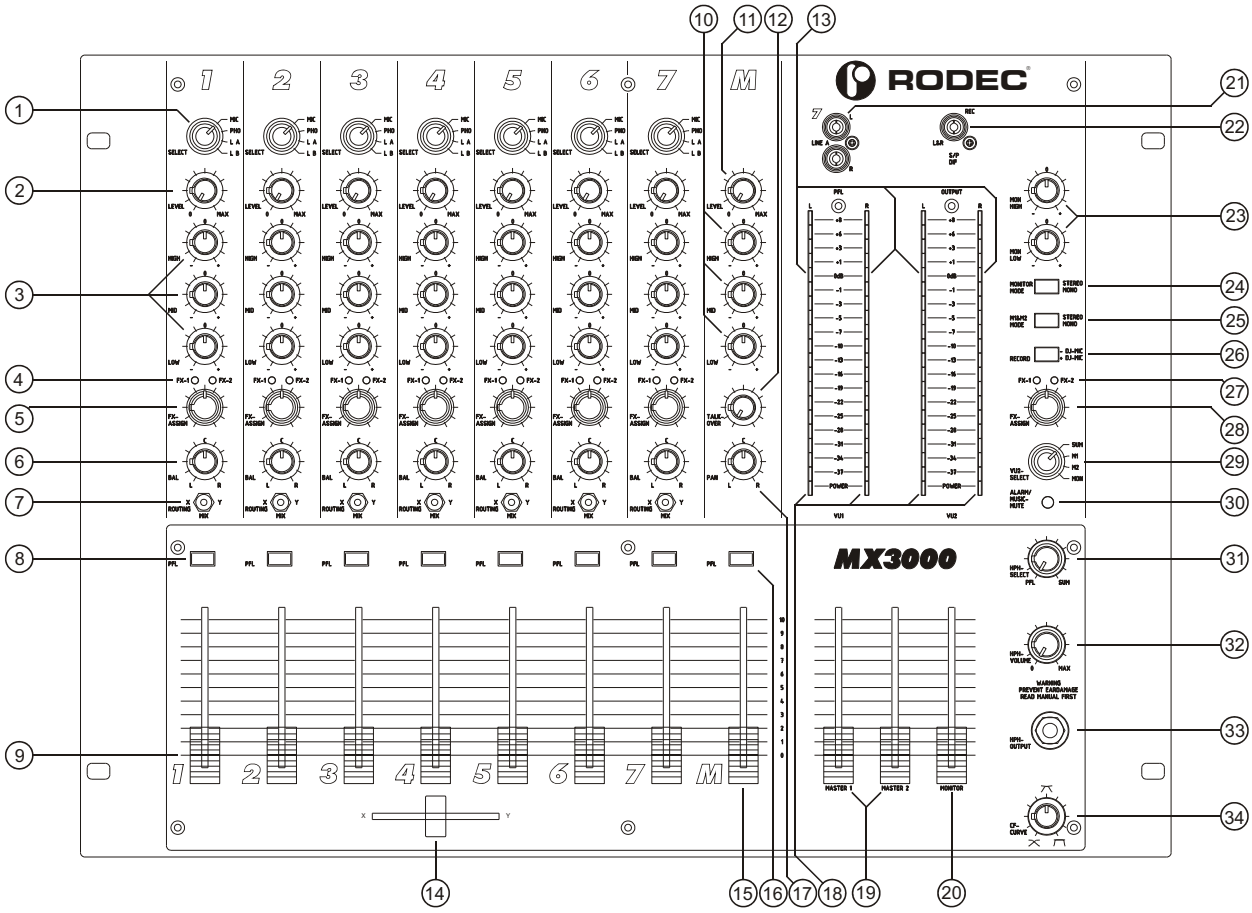


11.3.4. BACK PART ORDER NUMBERS

Number	Device	Order code	Function
A	Switch Push 2x2/90°	11 504 0004	Power switch
A	Pushknob square black	63 004 0001	Power button
B	Mains IEC connector snap-in with faston	57 508 0002	Mains inlet
C	COMBO XLR-JACK 6p??? 90°	57 502 0006	Microphone combo connector
C	Hi-Lo 3.2x6.0	71 001 0014	Combo connector mounting screw
D	JACK STEREO 90°/6.35mm small center	57 503 0005	Insert JACK connector
E	Earth terminal	57 510 0001	Earth terminal
F	XLR 3pol/90°right F	57 502 0002	XLR 3pole input connector
F	Hi-Lo 3.2x6.0	71 001 0014	XLR connector mounting screw
G	RCA 2pol/90° Au white/red	57 501 0006	RCA gold connector white+red
G	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
H+I	JACK STEREO 90°/6.35mm stack	57 503 0003	FX connector
J	JACK STEREO 90°/6.35mm small center	57 503 0005	Headphones JACK connector
K	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
K	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
L+M	XLR 3pol/90°right M	57 502 0003	XLR 3pole output connector
L+M	Hi-Lo 3.2x6.0	71 001 0014	XLR connector mounting screw
N&P	RCA 2pol/90° Ni orange/orange	57 501 0010	RCA connector orange+orange
N&P	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
O	USB B single connector 90° PCB 4pole	57 514 0001	USB B connector
Q	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
Q	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
R	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
R	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
S	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
S	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
	Connection panel MX2200	74 002 0011	Back panel MX2200

11.4.0. MX3000

11.4.1. FRONT VIEW



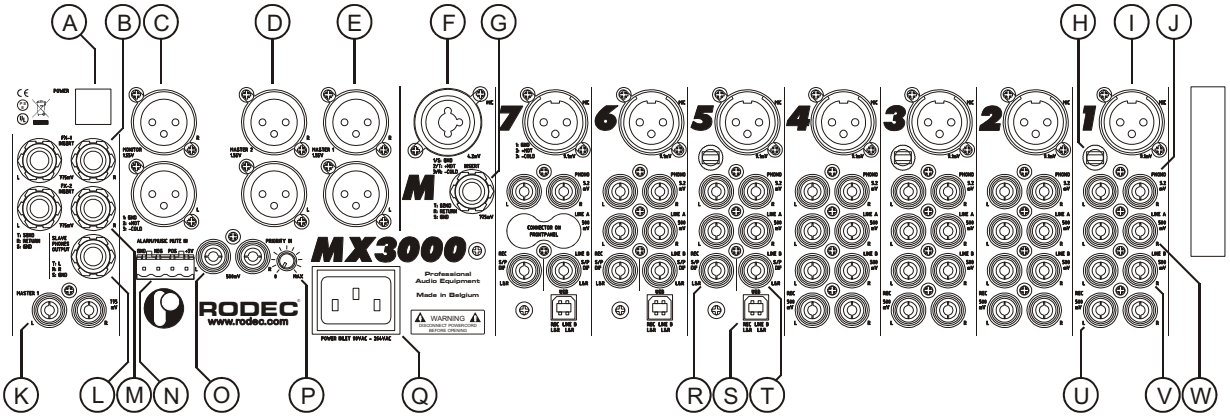
11.4.2. FRONT PART ORDER NUMBERS

Number	Device	Order code	Function
1	Switch Rotative 2x4pos D-shaft 6mm	11 501 0001	VU-2 select switch
1	Knob Push-on Soft Black/White 12mm 315°	63 001 0005	Knob black-white
2	Potmeter Rotative 2x100klog D-shaft 6mm 90°	09 502 0001	Level potentiometer
2	Knob RODEC Soft Black/Red 10mm 180°/12	63 001 0022	Level knob
3	Potmeter Rotative 2x10kalog D-shaft 6mm 90°	09 502 0013	High/Mid/Low potentiometer
3	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Mid/Low knob
4	LED dual bi-colour 90°	36 501 0009	FX-1+FX-2 LEDs
5	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	FX-assign potentiometer
5	Knob RODEC Soft Black/Blue 12mm 180°/12	63 001 0031	FX-assign knob
6	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	Balance potentiometer
6	Knob RODEC Soft Black/Yellow 10mm 180°/12	63 001 0024	Balance knob
7	Switch Toggle 1x3/90°	11 502 0007	Crossfader assign switch
8	Switch Push 2x2/90° mom with green LED	11 504 0007	PFL momentary switch
8	Pushknob Rectangle transparent white 5,5x10x6,0	63 004 0005	PFL button
9	HD 60mm fader 0° 1x10klin T-shaft DC 150mm NoDB	86 001 0002	Channel fader

9	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
9	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
10	Potmeter Rotative 1x100klin D-shaft 6mm 90°	09 502 0004	High/Mid/Low potentiometer
10	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Mid/Low knob
11	Potmeter Rotative 2x100klog D-shaft 6mm 90°	09 502 0001	Level potentiometer
11	Knob RODEC Soft Black/Red 10mm 180°/12	63 001 0022	Level knob
12	Potmeter Rotative 1x100klog D-shaft 6mm 90°	09 502 0016	Talk-over potentiometer
12	Knob RODEC Soft Black/White 10mm 180°/12	63 001 0025	Talk-over knob
13	LED rectangle red 6,3 x 1,5	36 501 0012	Red VU-meter LED
13	LED rectangle yellow 6,3 x 1,5	36 501 0013	Yellow VU-meter LED
13	LED rectangle green 6,3 x 1,5	36 501 0011	Green VU-meter LED
14	Fader unit SCRATCHBOX	68 001 0044	Crossfader
14	Knob Black 18x7x11 shaft=1.2x4	63 003 0002	Crossfader knob
14	Bold M3x5 black recessed	71 001 0016	Crossfader mounting screw
15	HD 60mm fader 0° 2x10klog T-shaft DC 150mm	86 001 0003	Microphone channel fader
15	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
15	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
16	Switch Push 2x2/90° mom with green LED	11 504 0007	PFL momentary switch
16	Pushknob Rectangle transparent white 5,5x10x6,0	63 004 0005	PFL button
17	Potmeter Rotative 1x100klin D-shaft 6mm 90°	09 502 0004	Panorama potentiometer
17	Knob RODEC Soft Black/Yellow 10mm 180°/12	63 001 0024	Panorama button
18	LED rectangle yellow 6,3 x 1,5	36 501 0013	Yellow power indicator LED
19	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	86 001 0004	Master fader
19	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
19	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
20	HD 60mm fader 0° 2x10klog T-shaft DC 300mm	86 001 0004	Monitor fader
20	Knob Soft touch Black/White T-shaft	63 003 0003	Fader knob
20	Bold M3x5 black recessed	71 001 0016	Fader mounting screw
21	RCA 2pol/90° Ni red/white horizontal	57 501 0007	RCA connector red+white
21	Screw recessed 2.9 a 3 x 10 a 13 black	71 001 0011	RCA mounting screw
22	RCA 1pol/90° Ni black	57 501 0008	RCA connector Black
22	Screw recessed 2.9 a 3 x 10 a 13 black	71 001 0011	RCA mounting screw
23	Potmeter Rotative 2x100klin D-shaft 6mm 90°	09 502 0002	High/Low potentiometer
23	Knob RODEC Soft Black/Grey 10mm 180°/12	63 001 0023	High/Low knob
24	Switch Push 2x2/90°	11 504 0004	Monitor mode switch
24	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Monitor mode knob
25	Switch Push 2x4/90°	11 504 0003	Master mode switch
25	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Master mode knob
26	Switch Push 2x2/90°	11 504 0004	Record mode switch
26	Pushknob Rectangle black 5,5x10x6,0	63 004 0004	Record mode knob
27	LED dual bi-colour 90°	36 501 0009	FX-1+FX-2 LEDs
28	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	FX-assign potentiometer
28	Knob RODEC Soft Black/Blue 12mm 180°/12	63 001 0031	FX-assign knob
29	Switch Rotative 2x4pos D-shaft 6mm	11 501 0001	VU-2 select switch
29	Knob RODEC Soft Black/White 12mm 315°/14	63 001 0026	VU-2 select button
30	LED red 5mm 90°	36 501 0010	Alarm/Music-mute LED
31	Potmeter Rotative 2x10klin D-shaft 6mm 90°	09 502 0010	Headphones select potentiometer
31	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Headphones select button
32	Potmeter Rotative 2x10klog D-shaft 6mm 90°	09 502 0015	Headphones volume potentiometer

32	Knob RODEC Soft Black/White 12mm 180°/12	63 001 0027	Headphones volume button
33	JACK STEREO 90°/6.35mm metal	57 503 0001	Headphones JACK connector
34	Potmeter Rotative 1x10klin D-shaft 6mm 90° CC	09 502 0014	Crossfader curve potentiometer
34	Knob RODEC Soft Black/Wine red 10mm 180°/12	63 001 0039	Crossfader curve button
	Frontpanel MX3000	74 001 0038	Frontpanel MX3000
	Frontpanel overlay MX3000	74 001 0042	Frontpanel overlay MX3000
	Bold M3x5 stainless recessed	71 001 0018	Overlay mouting screws

11.4.3. BACK VIEW



11.4.4. BACK PART ORDER NUMBERS

Number	Device	Order code	Function
A	Switch Push 2x2/90°	11 504 0004	Power switch
A	Pushknob square black	63 004 0001	Power button
B	JACK STEREO 90°/6.35mm stack	57 503 0003	FX connector
C+D+E	XLR 3pol/90°right M	57 502 0003	XLR 3pole output connector
C+D+E	Hi-Lo 3.2x6.0	71 001 0014	XLR connector mounting screw
F	COMBO XLR-JACK 6p??? 90°	57 502 0006	Microphone combo connector
F	Hi-Lo 3.2x6.0	71 001 0014	Combo connector mounting screw
G	JACK STEREO 90°/6.35mm small center	57 503 0005	Insert JACK connector
H	Earth terminal	57 510 0001	Earth terminal
I	XLR 3pol/90°right F	57 502 0002	XLR 3pole input connector
I	Hi-Lo 3.2x6.0	71 001 0014	XLR connector mounting screw
J	RCA 2pol/90° Au white/red	57 501 0006	RCA gold connector white+red
J	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
K	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
K	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
L	JACK STEREO 90°/6.35mm small center	57 503 0005	Headphones JACK connector
M	JACK STEREO 90°/6.35mm stack	57 503 0003	FX connector
N	Header PCB 4pole 5.08 horizontal with open ends	57 513 0001	Alarm connector chassis piece
N	Plug 4pole 5.08 vertical cable entry with screw	57 513 0002	Alarm connector cable piece
O	RCA 2pol/90° Ni white/red horizontal	57 501 0011	RCA connector white+red
O	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
P	Potmeter Rotative 2x100klog knurl-shaft 90°	09 502 0012	Level potentiometer
Q	Mains IEC connector snap-in with faston	57 508 0002	Mains inlet
R&T	RCA 2pol/90° Ni orange/orange	57 501 0010	RCA connector orange+orange

R&T	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
S	USB B single connector 90° PCB 4pole	57 514 0001	USB B connector
U	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
U	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
V	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
V	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
W	RCA 2pol/90° Ni white/red	57 501 0005	RCA connector white+red
W	Hi-Lo 3.2x6.0	71 001 0014	RCA connector mounting screw
	Connection panel MX3000	74 002 0012	Back panel MX3000