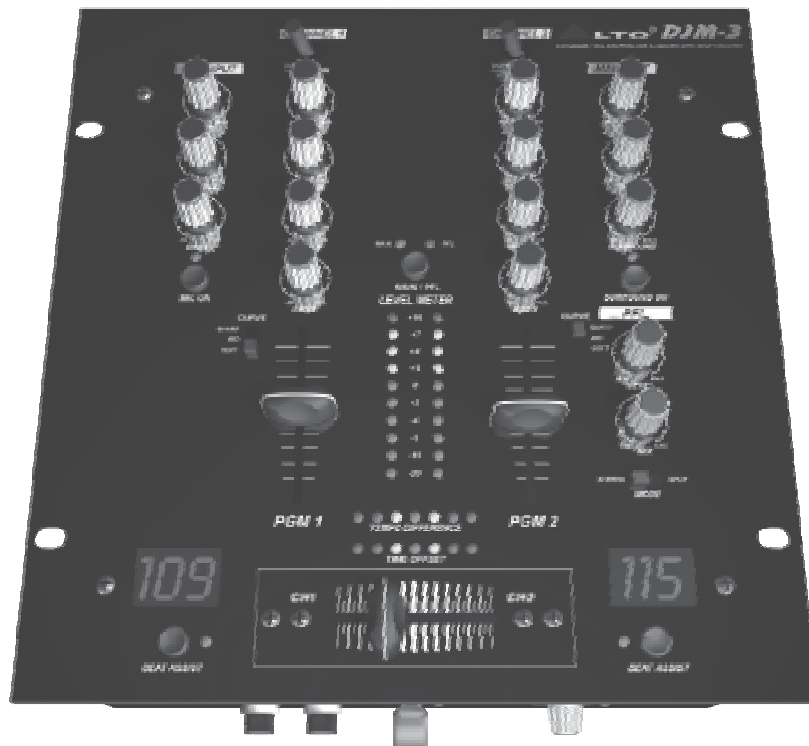


User's Manual

DJM-3

2-CHANNEL VCA -CONTROLLED
DJ MIXER WITH BEAT COUNTER



LTO[®]

www.altoproaudio.com
Version 2.3 September 2005

— English —

SAFETY RELATED SYMBOLS



This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.



This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.



Protective Ground Terminal



AC mains (Alternating Current)



Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

WARNING

Describes precautions that should be observed to prevent the possibility of death or injury to the user.

CAUTION

Describes precautions that should be observed to prevent damage to the product.



Disposing of this product should not be placed in municipal waste and should be Separate collection.

WARNING

• Power Supply

Ensure that the mains source voltage (AC outlet) matches the voltage rating of the product. Failure to do so could result in damage to the product and possibly the user.

Unplug the product before electrical storms occur and when unused for long periods of time to reduce the risk of electric shock or fire.

• External Connection

Always use proper ready-made insulated mains cabling (power cord). Failure to do so could result in shock/death or fire. If in doubt, seek advice from a registered electrician.

• Do Not Remove Any Covers

Within the product are areas where high voltages may present. To reduce the risk of electric shock do not remove any covers unless the AC mains power cord is removed.

Covers should be removed by qualified service personnel only.

No user serviceable parts inside.

• Fuse

To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

• Protective Ground

Before turning the product ON, make sure that it is connected to Ground. This is to prevent the risk of electric shock.

Never cut internal or external Ground wires. Likewise, never remove Ground wiring from the Protective Ground Terminal.

• Operating Conditions

Always install in accordance with the manufacturer's instructions.

To avoid the risk of electric shock and damage, do not subject this product to any liquid/rain or moisture. Do not use this product when in close proximity to water.

Do not install this product near any direct heat source. Do not block areas of ventilation. Failure to do so could result in fire.

Keep product away from naked flames.

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions

Follow all instructions

Keep these instructions. Do not discard.

Heed all warnings.

Only use attachments/accessories specified by the manufacturer.

• Power Cord and Plug

Do not tamper with the power cord or plug. These are designed for your safety.

Do not remove Ground connections!

If the plug does not fit your AC outlet seek advice from a qualified electrician.

Protect the power cord and plug from any physical stress to avoid risk of electric shock.

Do not place heavy objects on the power cord. This could cause electric shock or fire.

• Cleaning

When required, either blow off dust from the product or use a dry cloth.

Do not use any solvents such as Benzol or Alcohol. For safety, keep product clean and free from dust.

• Servicing

Refer all servicing to qualified service personnel only.

Do not perform any servicing other than those instructions contained within the User's Manual.

PREFACE

Dear Customer:

Thanks for choosing ▲LTO DJM-3 2-CHANNEL VCA-CONTROLLED DJ MIXER WITH BEAT COUNTER and thanks for choosing one of the results of ▲LTO AUDIO TEAM's work and researches.

For our ▲LTO AUDIO TEAM, music and sound more than a job... are first of all passion and let us say... Our obsession!

We have been designing professional audio products for a long time in cooperation with some of the major brands in the world in the audio field.

Because we are convinced you are the most important member of ▲LTO AUDIO TEAM and the one confirming the quality of our job, we like to share with you our work and our dreams, paying attention to your suggestions and your comments.

Following this idea we create our products and we will create the new ones! From our side, we guarantee you and we will guarantee you also in future the best quality, the best fruits of our continuous researches and the best prices.

Our ▲LTO DJM-3 2-CHANNEL VCA-CONTROLLED DJ MIXER WITH BEAT COUNTER has extensive features i.e. 2 phono /line inputs; 1 microphone input; intelligent dual auto beat per minute counter with time and beat sync. display; BASS, MID and TREBLE on each channel; crossfader curve control etc., which are suitable for many other professional applications.

Nothing else to add, but that we would like to thank all the people that made the ▲LTO DJM-3 2-CHANNEL VCA-CONTROLLED DJ MIXER WITH BEAT COUNTER, and thank our designers and all the ▲LTO staff people who make possible the realization of products containing our idea of music and sound and are ready to support you, our customers, in the best way, conscious that you are our best richness.

Thank you very much

▲LTO AUDIO TEAM

TABLE OF CONTENTS

1. INTRODUCTION.....	4
2. FEATURES LIST.....	4
3. CONTROL ELEMENTS.....	5
3.1 The TOP Cover	
3.1.1 The CHANNEL Section	
3.1.2 The MIC INPUT Section	
3.1.3 The MAIN OUT Section	
3.1.4 The PFL (pre fader level) Section	
3.1.5 The LEVEL METER Section	
3.1.6 The BPM (Beat per Minute) Section	
3.2 The Front Panel	
3.2.1 MIC IN Jack	
3.2.2 The PHONE OUT Jack	
3.2.3 The REVERSE Switch	
3.2.4 CROSSFADER CURVE Control	
3.3 The Rear Panel	
3.3.1 AC Inlet and Fuse Holder	
3.3.2 POWER Switch	
3.3.3 MAIN OUT	
3.3.4 EFFECTS send and return	
3.3.5 INPUT	
3.3.7 GND screw	
4. TECHNICAL SPECIFICATIONS.....	11
5. SYSTEM BLOCK DIAGRAM.....	12
6. WARRANTY.....	13

1. INTRODUCTION

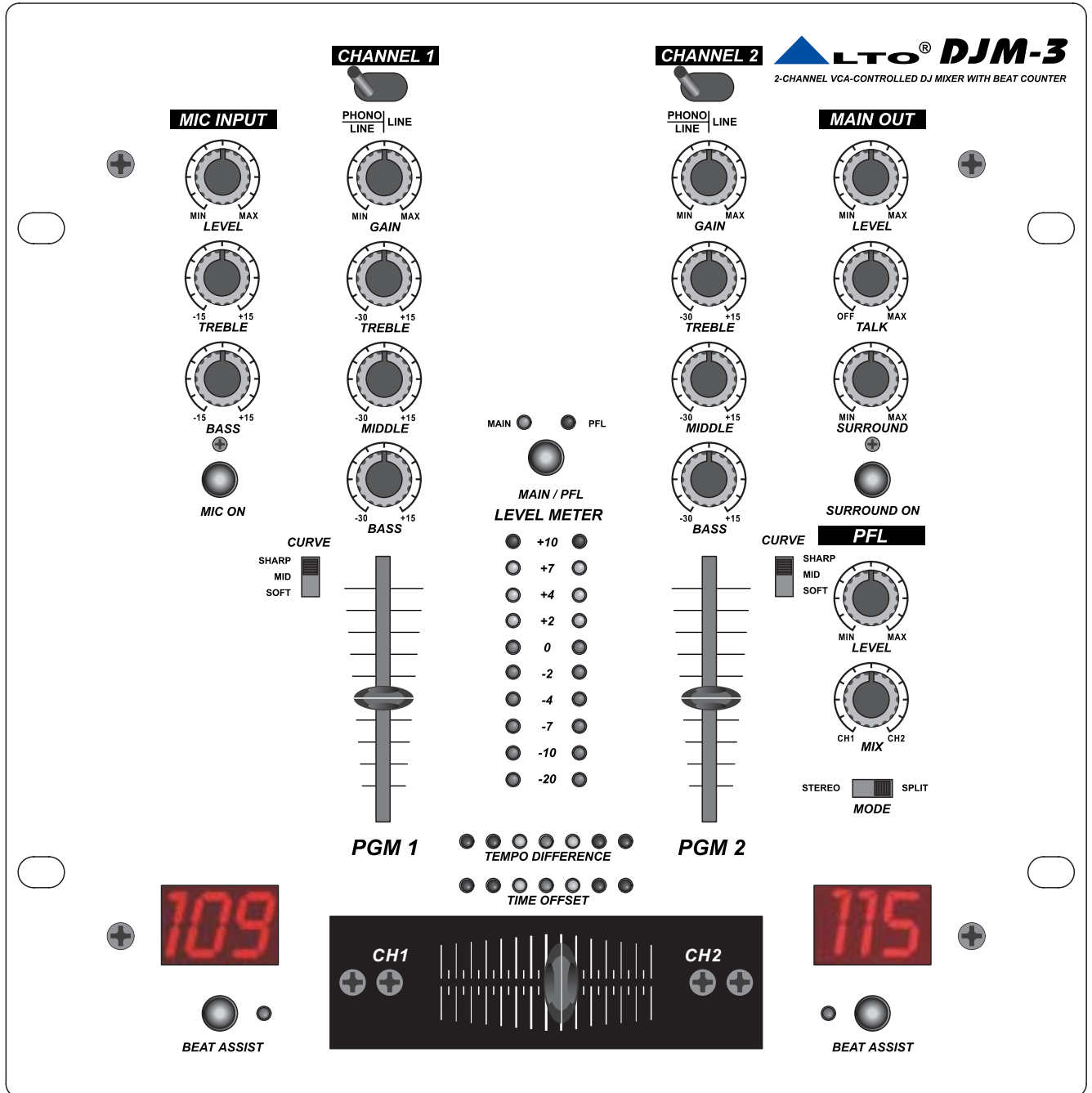
What a great DJ mixer you have just bought. Your DJM 3 is packed with features such as digital beat counter, 2 turntable input, 2 line input, microphone input, 3 bands equaliser and replaceable cross-fader just to mention a few. Your DJM 3 is VCA Controlled and it is very easy to operate. Please go through this Manual carefully and you will get the best out of your DJM 3

2. FEATURES LIST

- 5 Inputs: 2 Line, 2 Phono, 1 Mic
- 2 Outputs: Master output through RCA connectors, headphone output via 1/4" TRS jack
- Gain Control and bass, middle, treble equaliser on each channel
- Accurate Led Meter (10 segments)
- PFL switch
- Crossfader curve Control
- Surround control
- Talk Control
- Digital BPM (beat per minute) Counter
- VCA assisted Faders

3. CONTROL ELEMENTS

3.1 The TOP Cover



3.1.1 The CHANNEL Section

-. PHONO-LINE to LINE switch 1

This switch is available on both input channels. You shall use the LINE position for all high level audio signals such as CD Players, DAT, MD, etc. You shall use the PHONO-LINE position to connect the turntables making sure that the PHONO-LINE switch on the rear panel is on PHONO position. With this switch (the one on the rear panel) on LINE position, the Input Channel will accept a high level audio signal.

-. The GAIN control 2

Via this knob you will adjust the input level. Do not turn this control too much clockwise or you will overload the channel but do not turn it too much counterclockwise or you will generate background hiss.

-. The EQUALIZER control 3

Both Input Channels are provided with 3 bands equaliser: Bass, Middle and Treble and you can adjust the gain range of each from -30dB to +15dB.

-. The PROGRAM Fader 4

There is a Program Fader available on both channels. For optimum performance and operation the 2 Faders are VCA (Voltage Control Amplifier) controlled. These Faders adjust the overall level of the input channels.

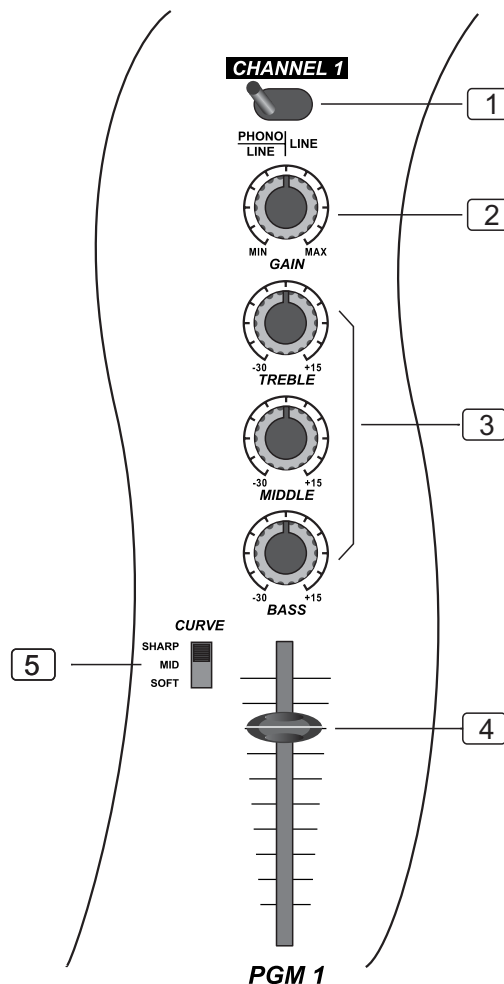
-. The CURVE control 5

Both input channels include a 3-position switch denominated CURVE.

If you set the CURVE switch on SHARP position the level will be changed quite quickly by the PROGRAM Fader even if you move the Fader slowly.

If you set the CURVE switch in SOFT position, the level will be changed much more slowly by the PROGRAM Fader even if you move the Fader quickly.

If you set the CURVE switch in MID position you will combine the SHARP and SOFT configuration.



3.1.2 The MIC INPUT Section

-. LEVEL control 6

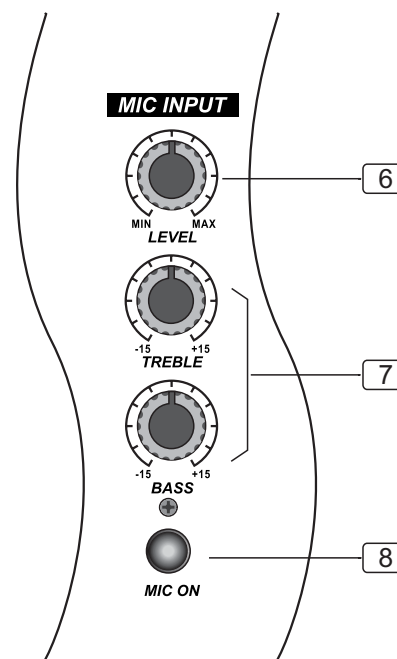
You can adjust the level of the microphone signal via this control.

-.TREBLE and BASS controls 7

With the treble and bass control you can create sound effects and make the sounds of any microphone better. The gain range of both bass and treble controls is of -15dB to +15dB.

-. The MIC ON switch 8

Push the MIC On button to activate the MIC INPUT channel.



3.1.3 The MAIN OUT Section

- **LEVEL control** 9

This knob controls the overall output volume.

- **The TALK control** 10

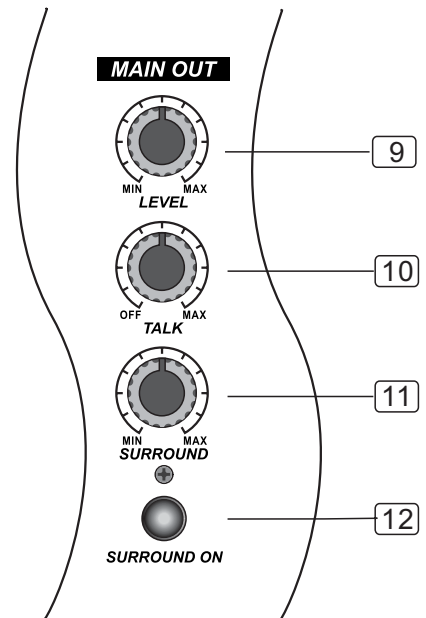
When you speak through a connected microphone the volume of the reproduced music will be automatically reduced by the mixer for better intelligibility of your voice. You can determine yourself how much the volume of the music will be reduced via this control.

- **The SURROUND control** 11

DJ Mixers are often used in quite inappropriate venues and the positioning of the loudspeakers is not always optimal. The Surround Control allow you to get a better transparency and stereo image and will contribute to "clean" you mix.

- **The SURROUND ON switch** 12

You can turn off the Surround function via this switch. You can also run fast A/B comparison (with surround/ without surround) via this switch.



3.1.4 The PFL (pre fader level) Section

When you connect a headphone to your DJM 3 you have the chance of pre-listen the audio signal before the signal reach the Main output.

- **LEVEL control** 13

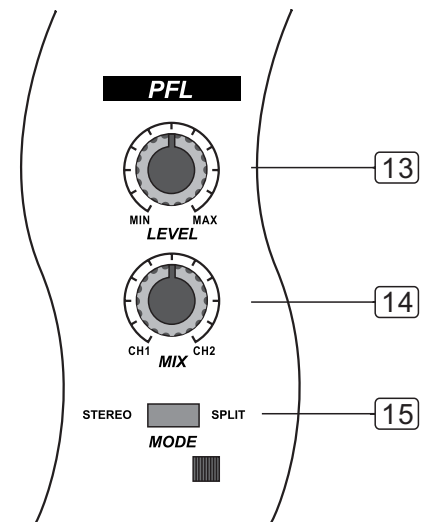
This knob will adjust the level of the headphone signal.

- **The MIX control** 14

Set the switch mode (15) in STEREO position and you can fade between channel 1 and 2.

- **MODE switch** 15

This is a 2-position switch. When the switch is in STEREO position see above at (14). If you choose the SPLIT position the two channels will be fully separated. So you will hear channel 1 only on the left side and you will hear Channel 2 only on the right side.



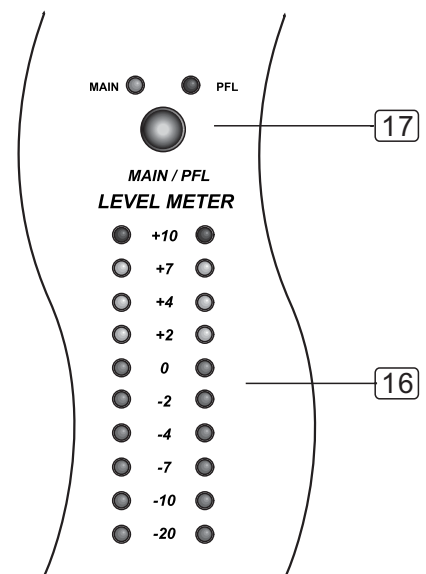
3.1.5 The LEVEL METER Section

- **LEVEL METER** 16

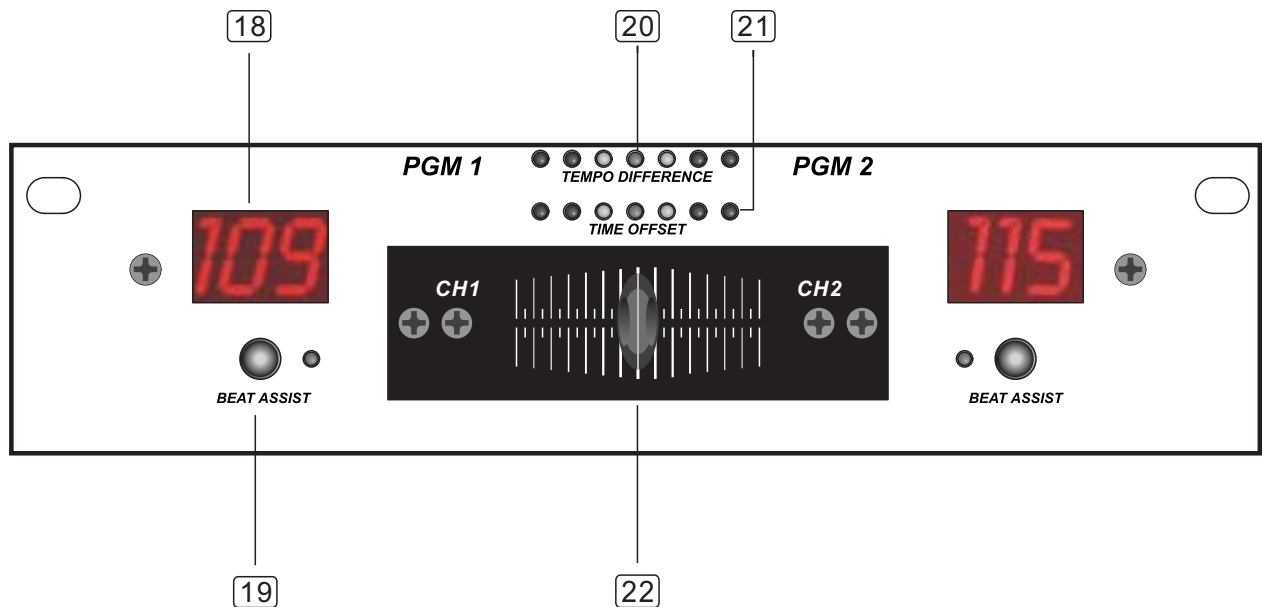
This 10 segments LED's Meter will read the signal selected via the MAIN/PFL switch. Please see following.

- **MAIN/PFL switch** 17

When this switch is in MAIN function (main Led on) the Level Meter will display the output level of the Left and Right channels; When this switch is in PFL function (PFL Led on) the Level Meter will display the PFL headphone signal: channel 1 on left Led Meter and Channel 2 on right Led Meter.



3.1.6 The BPM (Beat per Minute) Section



This is a key and exclusive function in your DJM 3 mixer. What is the Beat Per Minute function/ It simply indicate the "speed" of the music through a 3-digit display. The beats (per minute) of the music are automatically measured by the BPM and then displayed on the 3-digit display. Of course there is one BPM counter for every input channel. Thanks to the BPM function you can mix more quickly songs with different tempo.

- The TEMPO Display 18

This 3-digit display (one for every channel) will show the tempo of each channel. If the tempo changes the display will change accordingly.

- The BEAT ASSIST switch 19

The Beat Assist button is available on both channels and it is below the Tempo display. Press the Beat Assist button and you can manually regulate the beat. The Led nearby the Beat Assist button will show you when the function is active or not.

- TEMPO DIFFERENCE Led segment 20

This 7 segment Led Meter will indicate the tempo difference in between the two channels or programs. If the tempos on both channels is the same the center LED will light. If the tempo of the music on channel 1 is faster the LED's on the left will start to light and vice-versa.

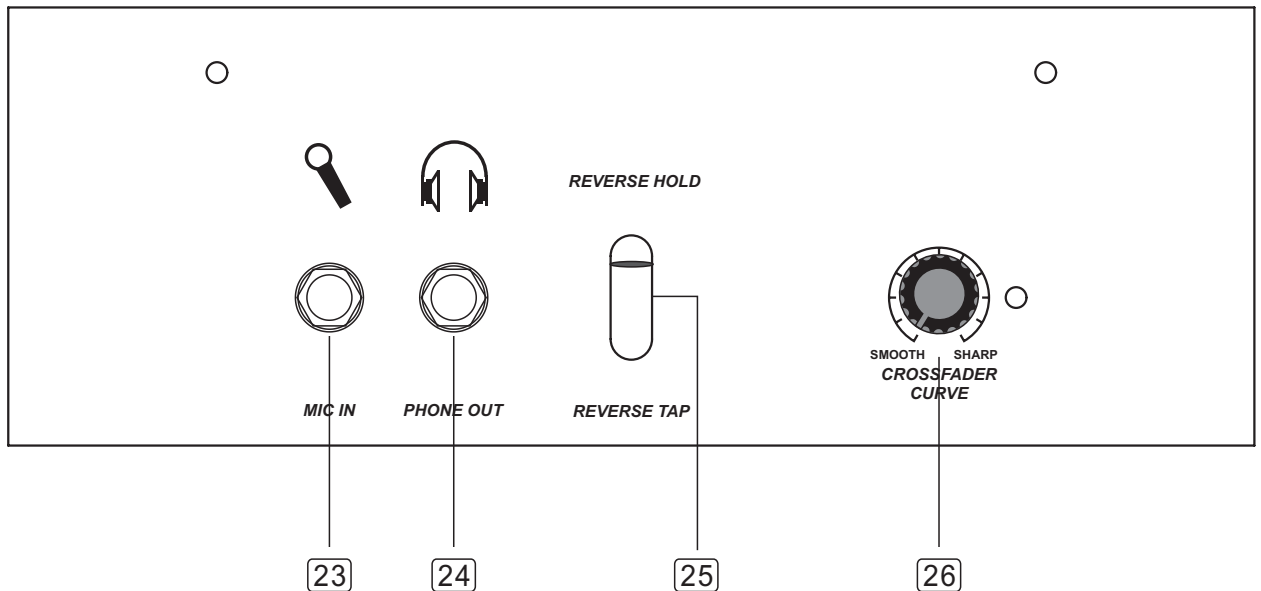
- TIME OFFSET Led segment 21

This 7 segments Led Meter is positioned immediately below the Tempo Difference display. This display will indicate the synchronicity of the 2 channels. When the 2 channels are synchronized, the center LED will light. If LED's on the left will start to light, Channel 1 is getting out of sync and vice-versa.

- The CROSSFADER 22

Through this crossfader you can fade in between Channel 1 and 2. The Crossfader on your DJM3 is VCA (Voltage Control Amplifier) controlled and it is User replaceable.

3.2 The Front Panel



3.2.1 MIC IN Jack 23

This input will accept an unbalanced low impedance microphone. The functions of the microphone will be controlled by the MIC INPUT section on the Top Panel.

3.2.2 The PHONE OUT Jack 24

This input will accept a standard headphone with a 1/4" stereo jack

3.2.3 The REVERSE Switch 25

This switch will invert the direction of the crossfader so that an immediate inversion of the two channels will be achieved. This switch has two functions: TAP and HOLD.

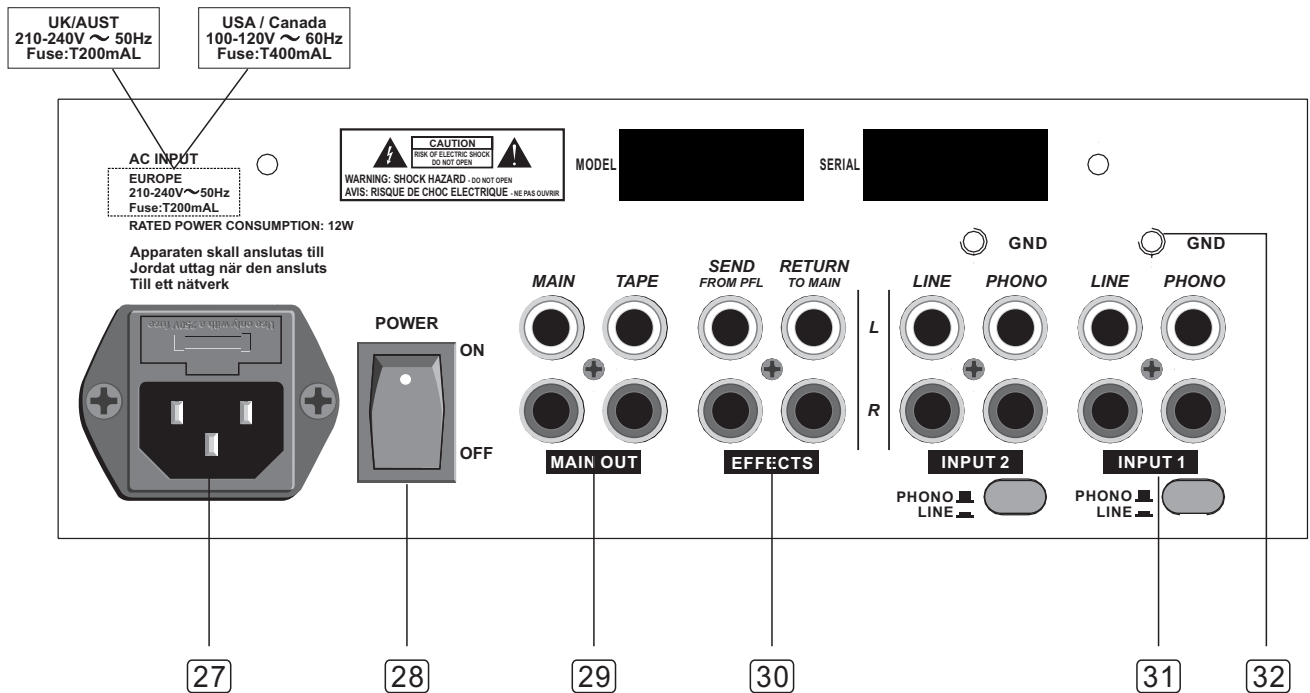
In TAP function the 2 channels will be reversed instantly and will go back in their original set as soon as you release the switch in center position

In HOLD function the two channels will be locked in the reverse position. To cancel the effect you will need to push back the switch in the center position.

3.2.4 CROSSFADER CURVE Control 26

Via this knob you will adjust the crossfader curve. Please see (5) earlier in this Manual for further reference.

3.3. The Rear Panel



3.3.1 AC Inlet and Fuse Holder 27

The fuse holder position (please follow the triangle that indicated the voltage accepted by the unit) can be changed only by a qualified Engineer. Please check the Voltage accepted by the unit and the Voltage available from your AC sockets before connecting the unit to the Mains.

3.3.2 POWER Switch 28

This switch turns the Mixer ON and OFF.

3.3.3 MAIN OUT 29

Both MAIN output and TAPE output are RCA types connectors. Yes the same largely used in hi-fi and are low impedance. Through the MAIN output you can connect your DJM 3 to an amplifier. Through the TAPE output you can connect your DJM 3 to a tape recorder.

3.3.4 EFFECTS send and return 30

You can send the PFL (pre fader level) signal through the SEND sockets to a signal processor such as reverb, equaliser, etc. Then from the same effect unit you bring the signal back into the DJM 3 via the RETURN sockets and the audio signal is routed into the MAIN output.

3.3.5 INPUT 31

- PHONO input: Both Channels feature PHONO inputs including RIIA preamplifier for turntable. PIN (RCA) jacks shall be used to connect the turntable.
- LINE input: Through these RCA type sockets you can connect a CD player, an MD player or any other high level device such as Tape Recorder, DAT, etc,

Important Notice: If you wish to connect LINE level devices into the LINE/PHONO input, make sure that the LINE/PHONO switch is on LINE position otherwise the sensitive RIIA preamplifier built-in in the Phono input will be overloaded and will produce distortion.

3.3.6 GND screw 32

This grounding connection is provided for your turntables.

4. TECHNICAL SPECIFICATIONS

INPUTS

Phono Inputs 1 and 2	40dB gain@1kHz,unbalanced
Line Inputs 1 and 2	0dB gain, unbalanced
Mic Input	40dB gain, servo - balanced
Return	0dB gain, unbalanced

OUTPUTS

Headphones	typically 125mW@ 1% THD
Main Out	max +21dBu
Tape Out	typically 0dBu
Send	typically 0dBu

GENERAL

Stereo Bass	+15dB/ - 30dB
Stereo Middle	+15dB/ - 30dB
Stereo Treble	+15dB/ - 30dB
Mic Bass	+15dB/ - 15dB
Mic Treble	+15dB/ - 15dB
Input Gain Adjustment	- 20dB - +9dB (± 3 dB)
Signal - to - Noise ratio(S/N)	>90dB(LINE)
Crosstalk	>70dB(LINE)
Distortion(THD)	<0.1%
Frequency Response	20Hz - 20KHz (± 2 dB)

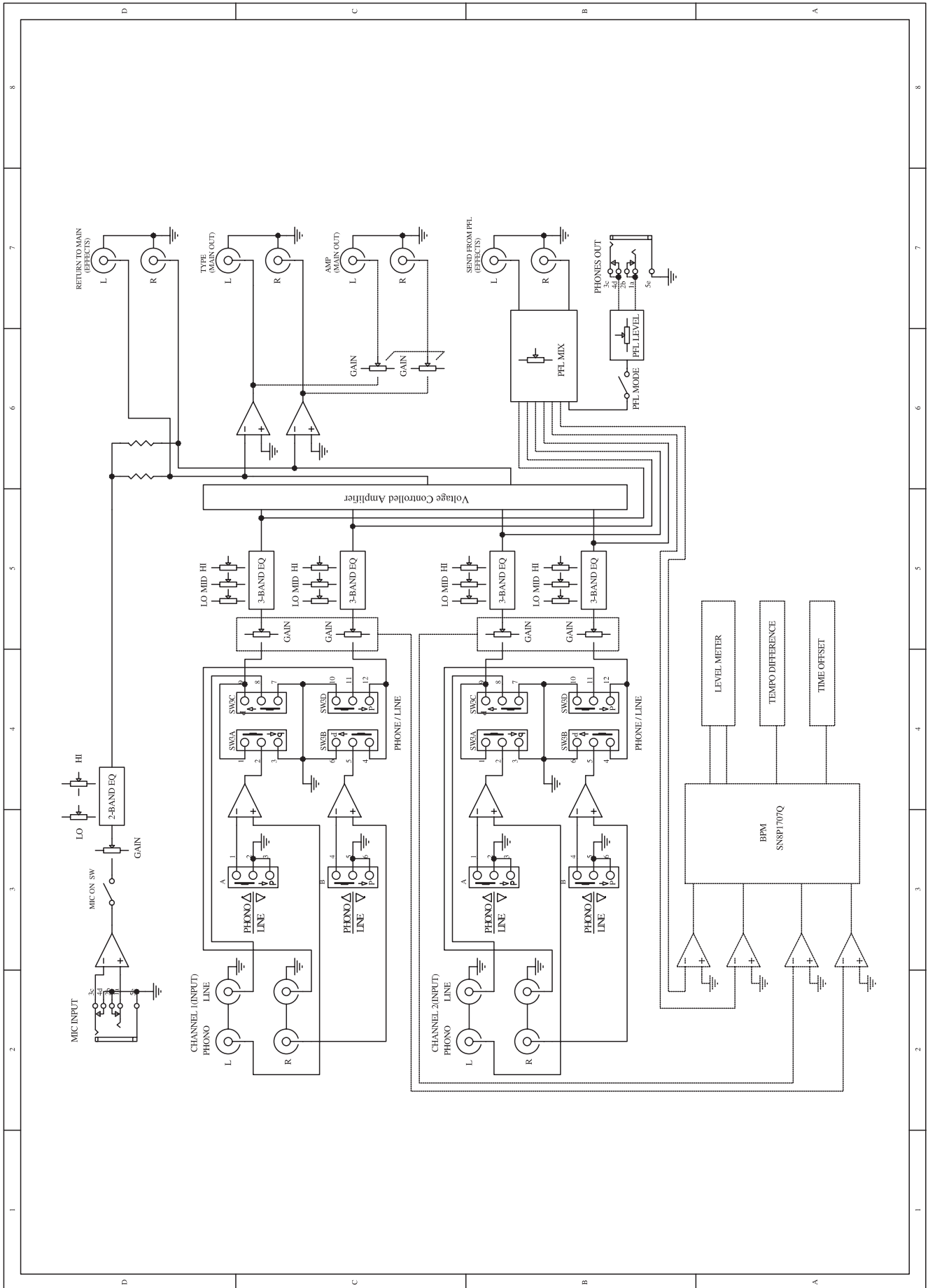
POWER SUPPLY

Connector type	3 - pole IEC, grounded
Main Voltage	USA/Canada 100 - 120V~, 60Hz UK/AUST 210 - 240V~, 50Hz
Power Consumption	12W
Fuse	95 - 120V~ : T400mAL 210 - 240V~ : T200mAL

DIMENSIONS AND WEIGHT

Dimension	248(L) \times 245(W) \times 76.6(H)mm (9.8" \times 9.6" \times 3.0")
Weight	2.9Kg (6.39lb)

5. SYSTEM BLOCK DIAGRAM



6. WARRANTY

1. WARRANTY REGISTRATION CARD

To obtain Warranty Service, the buyer should first fill out and return the enclosed Warranty Registration Card within 10 days of the Purchase Date.

All the information presented in this Warranty Registration Card gives the manufacturer a better understanding of the sales status, so as to purport a more effective and efficient after-sales warranty service.

Please fill out all the information carefully and genuinely, miswriting or absence of this card will void your warranty service.

2. RETURN NOTICE

2.1 In case of return for any warranty service, please make sure that the product is well packed in its original shipping carton, and it can protect your unit from any other extra damage.

2.2 Please provide a copy of your sales receipt or other proof of purchase with the returned machine, and give detail information about your return address and contact telephone number.

2.3 A brief description of the defect will be appreciated.

2.4 Please prepay all the costs involved in the return shipping, handling and insurance.

3. TERMS AND CONDITIONS

3.1 ▲LTO warrants that this product will be free from any defects in materials and/or workmanship for a period of 1 year from the purchase date if you have completed the Warranty Registration Card in time.

3.2 The warranty service is only available to the original consumer, who purchased this product directly from the retail dealer, and it can not be transferred.

3.3 During the warranty service, ▲LTO may repair or replace this product at its own option at no charge to you for parts or for labor in accordance with the right side of this limited warranty.

3.4 This warranty does not apply to the damages to this product that occurred as the following conditions:

- Instead of operating in accordance with the user's manual thoroughly, any abuse or misuse of this product.
- Normal tear and wear.
- The product has been altered or modified in any way.
- Damage which may have been caused either directly or indirectly by another product / force / etc
- Abnormal service or repairing by anyone other than the qualified personnel or technician.

And in such cases, all the expenses will be charged to the buyer.

3.5 In no event shall ▲LTO be liable for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.

3.6 This warranty gives you the specific rights, and these rights are compatible with the state laws, you may also have other statutory rights that may vary from state to state.

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