

Operating Instructions

LM-912
LINE AMPLIFIER

 **INKEL**

Unpacking and Installation

Although it is neither complicated to install nor difficult to operate your Line Amplifier, a few minutes of your time is required to read this manual for a properly wired installation and becoming familiar with its many features and how to use them. Please take a great care in unpacking your set and do not discard the carton and other packing materials. They may be needed when moving your set and are required if it ever becomes necessary to return your set for service. Never place the unit near radiators, in front of heating vents, to direct sun light, in excessive humid or dusty location to avoid early damage and for your years of quality entertainment. Connect your complementary components as illustrated in the following page.

Features

- **CONFERENCE UNIT**

Line mixer LM-912 which is able to use 12 microphone input is suitable for small size conference system. This unit is provided notch filter, tone control, and compressor limiter in order to adjust adequately, according to the conference room condition.

- **BALANCED CIRCUIT OF MIC 1-6**

Mic 1-12 mixer and line output are designed with electrical balance circuit to protect hum or noise induction in case of long cable of signals.

- **LINK IN/OUT**

These jacks are for expansion of mic input channel.

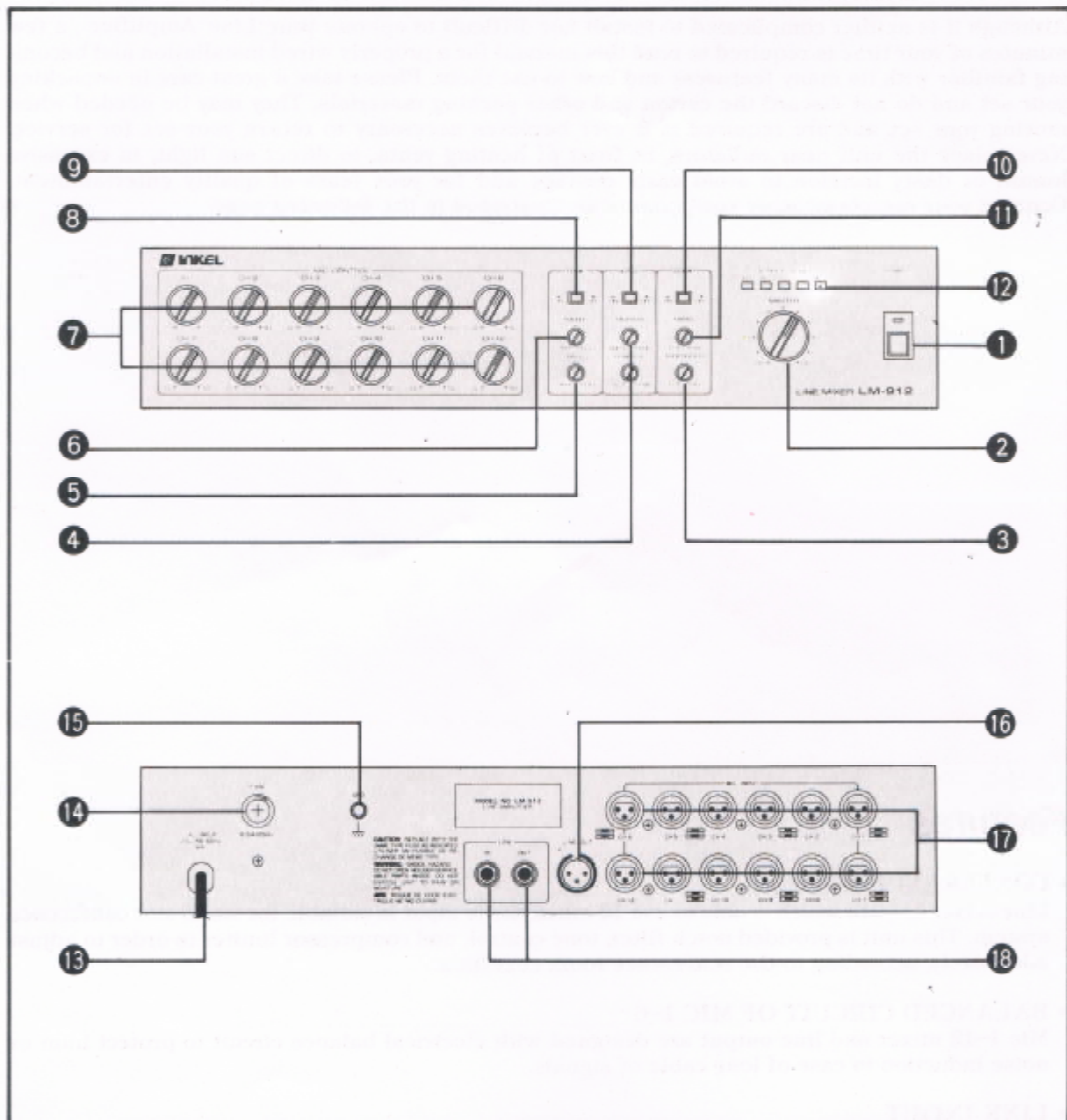
- **TWO NOTCH FILTERS**

To prevent howling, two notch filters of high and low are provided. The center frequencies of the filters are adjustable, but depth is settled to be more than 18dB.

- **COMPRESSOR/LIMITER**

A compressor/limiter is provided to minimize the distorted output in case of overloaded input level. When is not required, the compressor/limiter may be disable with compressor/limiter on or off switch.

Front Panel & Rear Panel Controls



1. POWER SWITCH

Pressing this switch to ON, power LED will light and supply the power to this unit.

2. MASTER VOLUME CONTROL

This control is used for adjusting the volume of finally mixed sound. It is continuously variable potentiometer, graduated from 0 to 10.

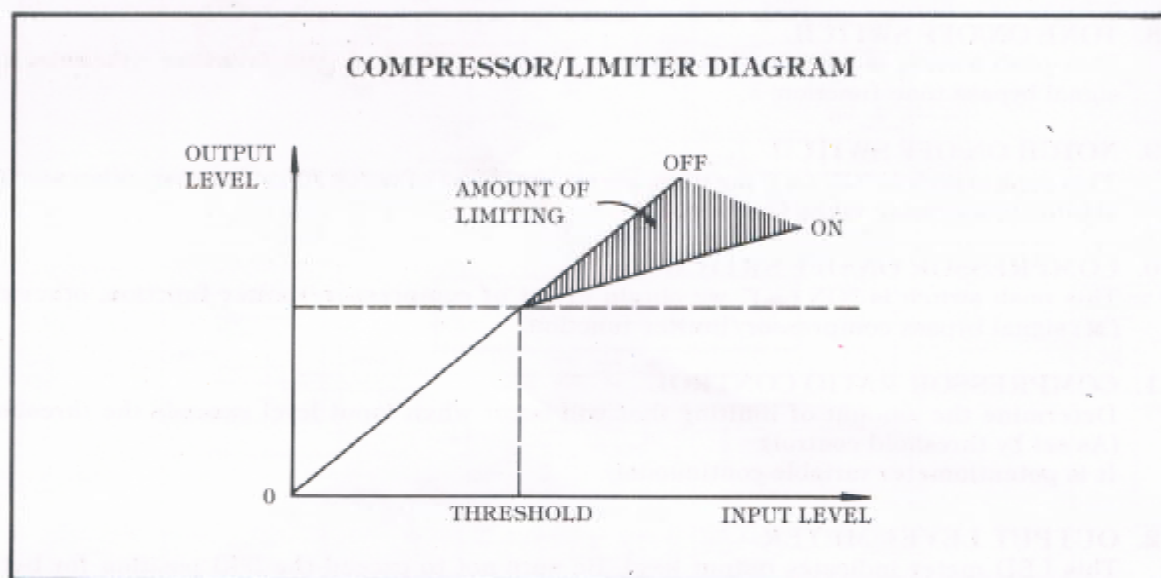
3. THRESHOLD CONTROL

Determines the level at which limiting begins. It is potentiometer variable continuously.

COMPRESSOR/LIMITER OPERATION

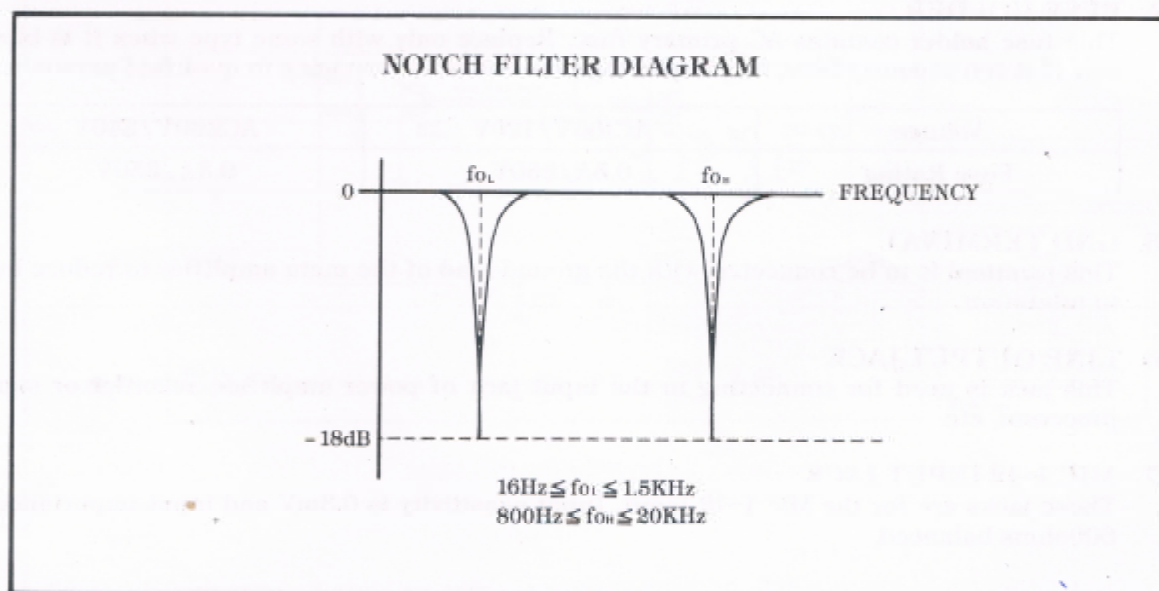
- 1) Adjust the input level controls for the desired mixing condition.
- 2) If the COMPRESSOR/LIMITER is not required, move its compression ON, OFF switch to the OFF position. Otherwise follow the set up instruction as below.
 - a) Rotate the compressor ratio control to "0" position.
 - b) Rotate the threshold control to mid position.
 - c) Move the compression ON/OFF switch to the ON position.
 - d) Begin by increasing the compressor ratio control for the desired amount of limiting.

Since the limiter is input level dependent, it may be necessary to readjust the threshold control.



4. NOTCH FREQUENCY CONTROL

Volume which can control a notch frequency. It is divided into two range of high and low. This filter is used when system happen to any problem at special frequency like howling and occurrence of displeasing sound.



5. BASS

This control is used for low frequency. The range of $\pm 10\text{dB}$ at 100Hz .

6. TREBLE

This control is used for high frequency sound. It is usually placed at center position. You can adjust the condition of listening place and listener's favor. The sound increased by turning it right and decrease by turning it left with range of $\pm 10\text{dB}$ at 10KHz .

7. MIC 1 ~ 12 VOLUME CONTROL

These controls are used for adjusting the volume of mic 1 ~ 12 input signal.

8. TONE ON/OFF SWITCH

This push switch is "ON (■)" position, we obtain effect of tone function, otherwise (■) signal bypass tone function.

9. NOTCH ON/OFF SWITCH

This push switch is "ON (■)" position, we obtain effect of notch filter function, otherwise (■) signal bypass notch filter function.

10. COMPRESSOR ON/OFF SWITCH

This push switch is "ON (■)", we obtain effect of compressor/limiter function, otherwise (■) signal bypass compressor/limiter function.

11. COMPRESSOR RATIO CONTROL

Determine the amount of limiting that will occur when input level exceeds the threshold. (As set by threshold control)
It is potentiometer variable continuously.

12. OUTPUT LEVEL METER

This LED meter indicates output level. Be sure not to exceed the 0dB position for better sound quality.

13. AC CORD

Plug this AC input cord into AC outlet.

14. FUSE HOLDER

This fuse holder contains AC primary fuse. Replace only with same type when it is blown out. If it continuously blow, stop replacing fuse and refer servicing to qualified personnel.

Voltage	AC100V/120V	AC220V/240V
Fuse Rating	0.5A/250V	0.3A/250V

15. GND TERMINAL

This terminal is to be connected with the ground lead of the main amplifier to reduce hum to minimum.

16. LINE OUTPUT JACK

This jack is used for connecting to the input jack of power amplifier, recorder or signal processor, etc.

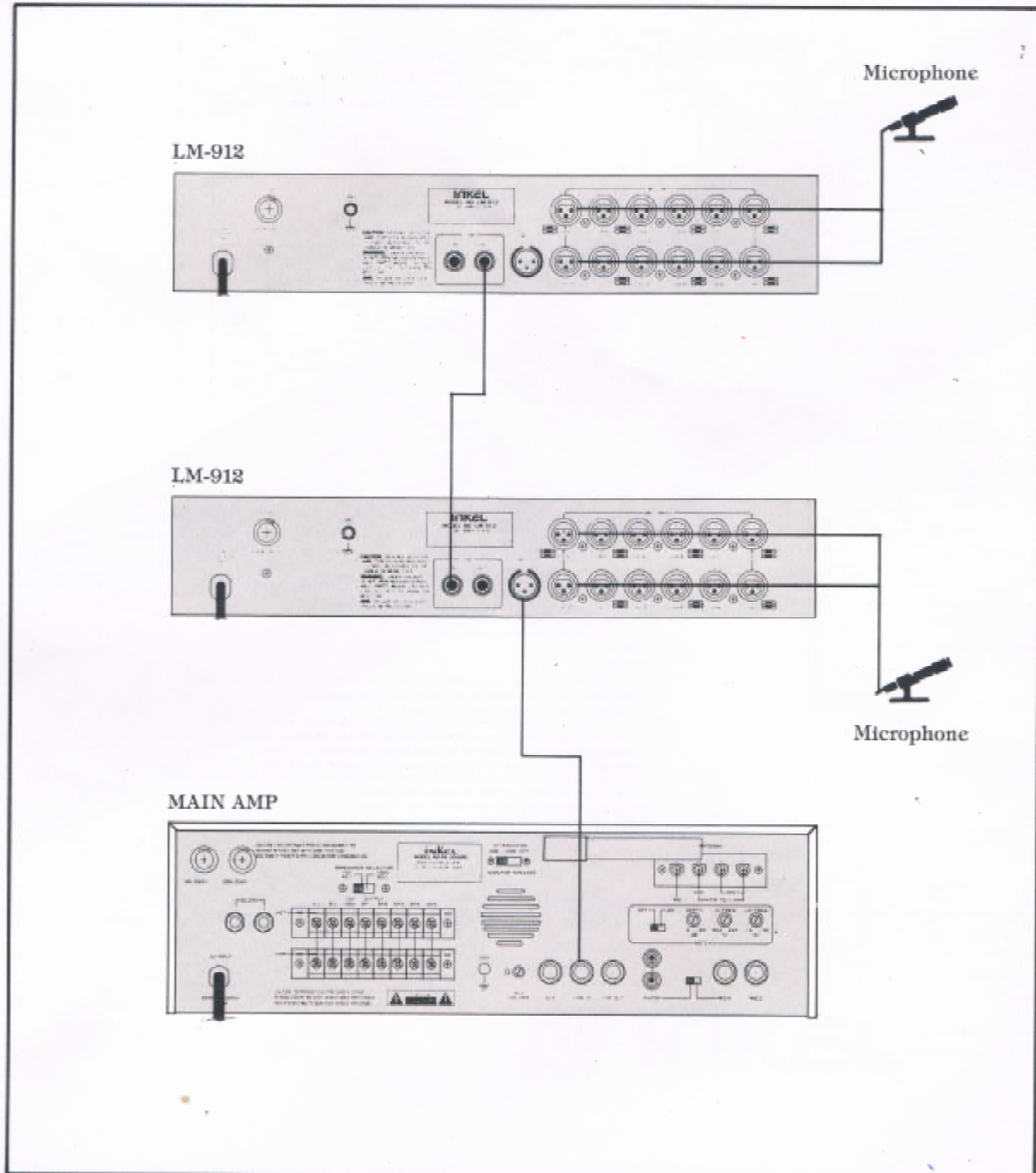
17. MIC 1-12 INPUT JACK

These jacks are for the Mic 1-12 input. Input sensitivity is 0.3mV and input importance is 600ohms balanced.

18. LINK IN/OUT JACKS

These jacks are for expansion of mic input channel. Link output of the first unit connect with link input of the second unit for using of two unit, and mic input jack expand into match mic 24.

Connections



Specifications

• ELECTRICAL

Input Sensitivity/Impedance	0.3mV/600ohms Balanced
Output Sensitivity/Impedance	1.2V/600ohms Balanced
Frequency Response	32Hz to 13KHz
Total Harmonic Distortion (at 1KHz)	Better than 54dB
Tone Control	
Bass	± 10dB (at 100Hz)
Treble	± 10dB (at 10KHz)
Notch Filters	
High	800Hz to 20KHz
Low	16Hz to 1.5KHz
Depth	Over than 18dB
Compressor/Limiter	
Threshold	20dB
Limiting Effect	15dB (at 20dB over)

• GENERAL

Power Source (Option)	AC100V/120V/220V/240V 50/60Hz
Dimensions	440(W) × 89(H) × 250(D)mm
Weight (Net)	4.5Kg

NOTE: Specifications and design subject to change without notice for improvement.