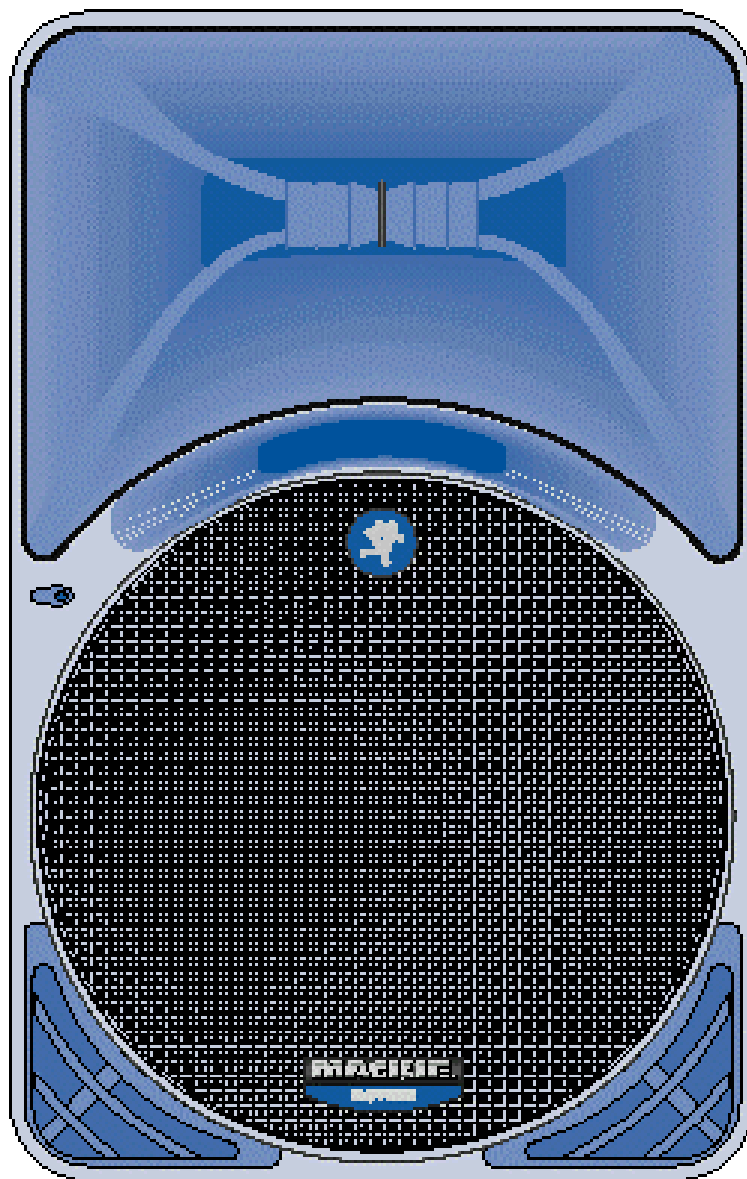
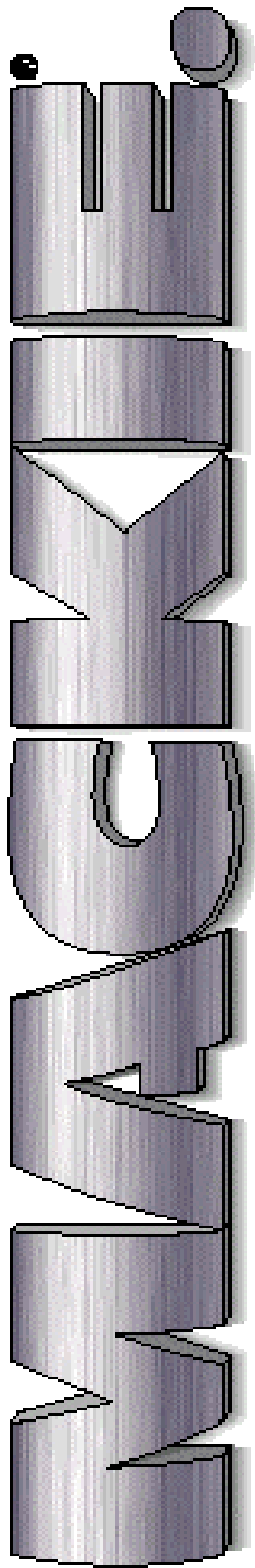


# SRM450 ACTIVE SOUND REINFORCEMENT MONITOR



TAESUNG  
SOUND

태성음향주식회사

**FR Series Power Amplifier**

MACKIE Active Sound Reinforcement  
SRM450 Loud Speaker 가 2-way SPL Speaker

SRM450 Mackie (Fast Recovery) Amp 2 가 Fast Recovery , Driver가 Clipping Amplifier가 Amplifier

SRM450 Studio Monitor Frequency Response HR824 SRM450 가 가 Setting Setting, Voice

•Low Frequency Clipping peak Amplifier 450W Continuous  
300W •High Frequency Clipping peak Amplifier 150W Continuous  
100W • Amplifier Compressor 가

Studio Home Theater Sound Reinforcement System Monitor 1998 6

Clipping Coil Compressor Level Low Frequency Amplifier High Frequency Compressor •Low Frequency Amp Woofer Coil Feedback loop Low-Frequency Low Distortion

Mackie Design 1998 6 High-end Pro-Audio Speaker RCF(Radio Cine Forniture) Sound Reinforcement Loudspeaker

•Low Frequency Sweeping Filter가 Amplifier Cut-Off Amplifier가 Clipping Low-Frequency Cut-Off 55Hz Clipping Distortion Power 120Hz가

**The Transducer**

Monitor SRM450 12 Low-Frequency Woofer 1.75 High-Frequency Drive 가 Waveguide 가 Mid-range High Frequency 가 Driver 가 Cabinet

Amplifier가 Clipping Low-Frequency Cut-Off 55Hz Clipping Distortion Power 120Hz가 Woofer Distortion Amplifier



가 Driver 가 Cabinet Mixer Gain Fader SRM450 Preamplifier Level

: Amplifier가 가 PEAK PEAK

**The Crossover**

SRM450 Linkwitz-Riley가 (Electronic Crossover)가 Linkwitz-Riley 가 Crossover

- Crossover Crossover

Frequency Response

• Roll-Off Filter 24dB/Oct Transducer가 가

• Driver Crossover Frequency Unity Power

• SRM450 가 , 6m

**The Cabinet**

SRM450 Cabinet 가

, Cabinet 가 SRM450

Fly-Point가 SRM450

가 가 System

Cabinet Stage Monitor

**Active**

Passive Speaker Active Speaker 가

• Crossover Active Line Level Passive Speaker

Cap,

• Amplifier 가

Amplifier Driver

• Amplifier Speaker Load Impedance

, Amplifier Load가

Speaker , Amplifier가

Speaker

• Amplifier Driver Speaker Damping

Cable Cable Factor가

Amplifier

Speaker Damping

, Amplifier

Power

Speaker Cable Driver

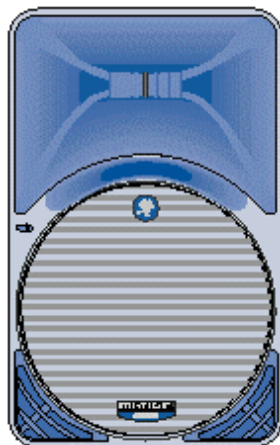
• Driver

(Lobing Error)가

• Speaker Cabinet Active

- Option Mic/Line module 가

System 가



## Hookup Diagram

### Quick Start

1. SRM450 Setting  
POWER OFF ( )  
TIMED TURNOFF, CONTOUR, LOW CUT  
가 Setting



Setting  
LEVEL

SRM450 Microphone  
가 Speaker

Cable

2. Microphone Preamp  
Mixing Console Line-Level  
SRM450 INPUT  
SRM450 Mixer,  
CD Player, Preamplifier, Tape Deck  
Balanced Line-Level  
Dynamic Microphone

3. AC Power IEC  
Power

SRM450  
220V

4. Mixer Master Volume Control

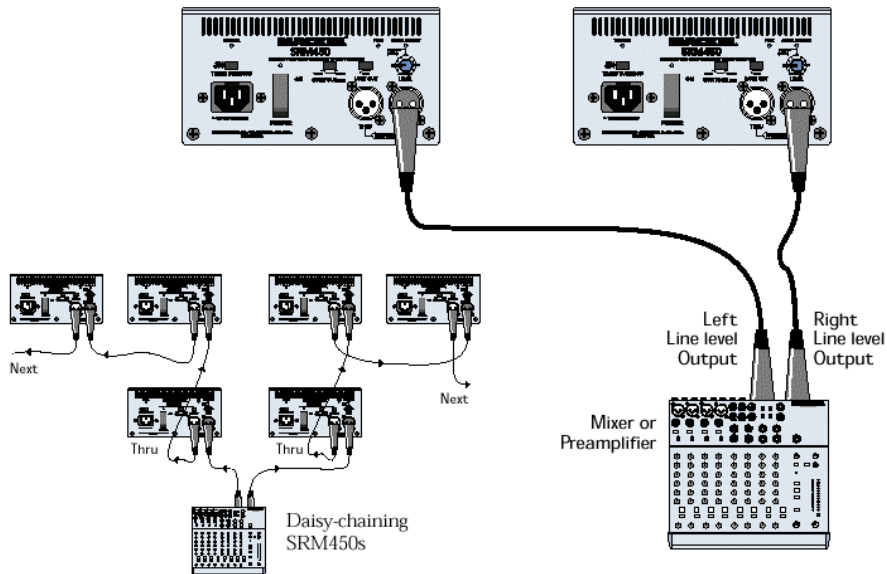
5. SRM450 POWER

6. CD Player SRM450  
Microphone Volume

7. SRM450 LEVEL  
가 PEAK  
light

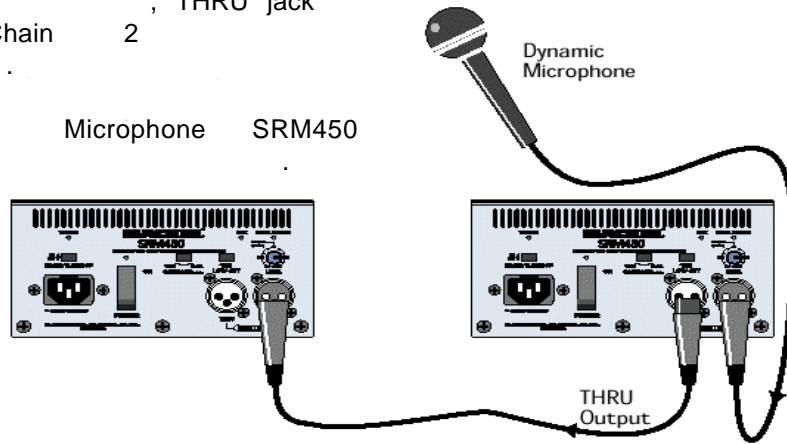
8. 가 SRM450  
LEVEL

가 Mute Mixer Preamplifier  
Tape Mic 가



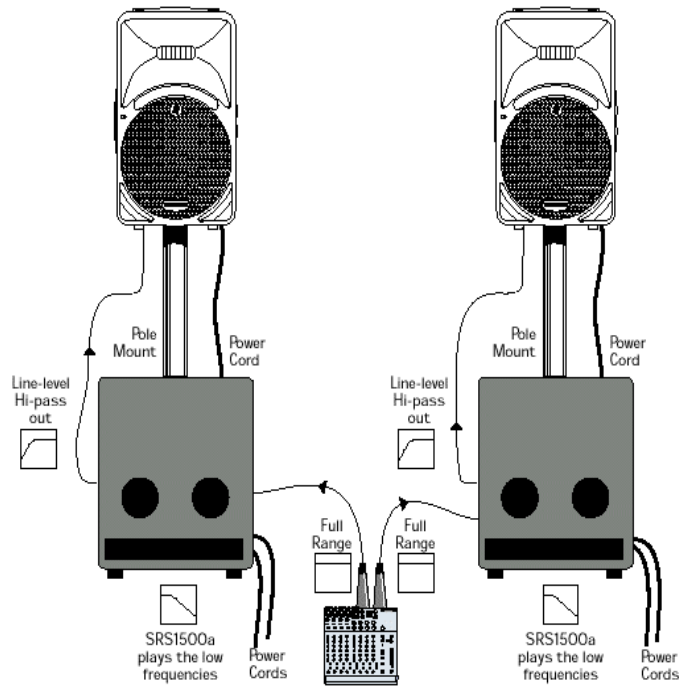
SRM450 : THRU JACK , MIXER STEREO

Microphone Daisy-Chain 2 , THRU jack  
가 Feedback



SRM450 : THRU JACK , MIXER STEREO

SRM450 MACKIE  
Sub-woofer SRS1500a  
System  
가  
SRS1500a Active  
Crossover  
SRS1500a  
Low Frequency 15  
Woofer 600W  
High-Pass  
SRM450  
SRM450 SRS1500a  
SRM450  
Stand  
가



SRM450 : POWERED SUBWOOFER

SRM450 LED가 , 가 , Amplifier가 가

① IEC Socket SRM450 Power-Amplifier AC Line -45dBu 가

AC AC Line AC LED Amplifier

Computer 가 가 LED Amplifier

Ground가 가

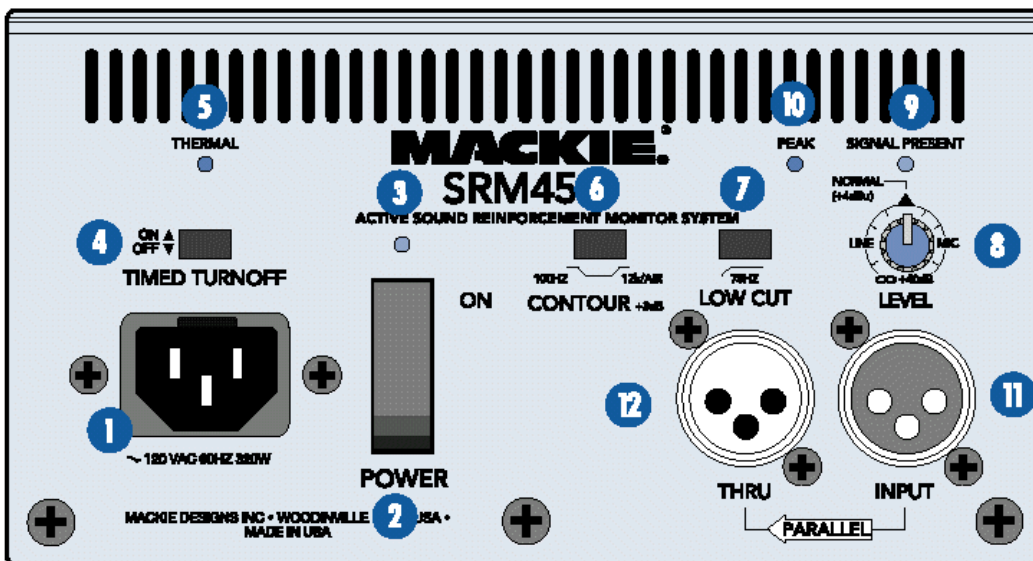
② POWER SRM450 Amplifier Shot-Down THERMAL Reset , THERMAL Indicator 가

가 Level 가

③ POWER ON Indicator POWER 가 , Line 가 AC Shout-Down , PEAK light가

Indicator POWER LED 가

SRM450 LED Consideration 12 Thermal



⑥ **CONTOUR**

) 3dB가 (100Hz 10Khz)  
(Punchy)

LOUDNESS 가

⑦ **LOW CUT**

, 75Hz, Low-cut Filter가

Monitor Microphone

⑧ **LEVEL**

Amplifier 가  
Gain  
40dB  
SRM450 MACKIE  
Mic-Preamp  
Line-Level  
SRM450 Phantom Power가  
Microphone  
가  
Microphone  
가  
Microphone



SRM450 Level

NORMAL (12 )

SRM450 Line-Level LEVEL 가

3 LEVEL 가

9 MIC 가

⑨ **SIGNAL PRESENT Indicator**

SRM450 INPUT Connector 가  
LED LEVEL

LEVEL  
LED

**PEAK Indicator**

Amplifier LEVEL Clipping  
가 , Compression 가

PEAK LED Compression 가

SRM450 SPL(Sound Pressure Level)  
120dB

PEAK Indicator 가  
PEAK Indicator  
가

Mixing Console Volume  
Level

SRM450 LEVEL

**INPUT Connector**

Balance unbalance XLR  
Connector Line Mic



**THRU Connector**

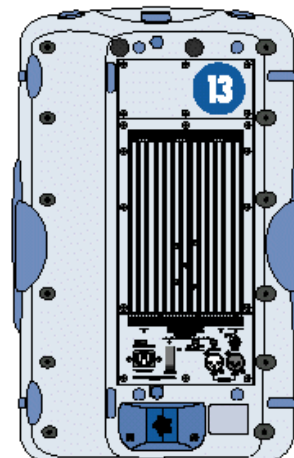
XLR Connector  
INPUT Jack  
가

Balance Unbalance Mic  
Line Level

가 Daisy-Chain  
Active Monitor

**ACCESSORY Plate**

Plate  
Accessory  
Accessory  
Web Site  
www.mackie.com



**(CONNECTION)**

SRM450 XLR INPUT Jack Balance  
 Unbalance Mic Line-Level  
 가 , Balance  
 , AES

**XLR**  
 Hot(+) Pin 2  
 Cold(-) Pin 3  
 Shield(Ground) Pin 1

SRM450 THRU Connector  
 가 , Mixing Console  
 SRM450

INPUT Jack  
 THRU Jack SRM450  
 INPUT



Daisy-Chain

가 Source

Impedance 10

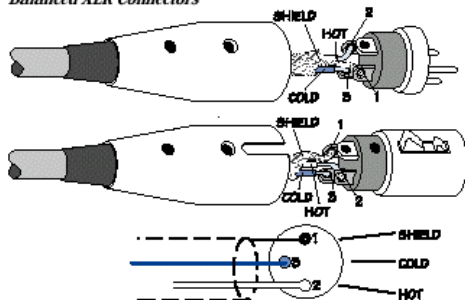
Mixing Console Impedance가  
 120ohm SRM450  
 16 Dasiy-Chain

1250ohm  
 (SRM450  
 Impedance=20K ohm, 16  
 =1250 ohm .)

Impedance Microphone 2  
 Dasiy-Chain 가  
 SRM450 가  
 THRU Jack INPUT Connector

Jack SRM450 THRU

Balanced XLR Connectors



**PLACEMENT**

SRM450 Active Monitor , Table

SRM450 rigging

SRM450 Monitor

Cabinet

가

Power가



가



SRM450

SRM450 TV

60-100Cm Computer

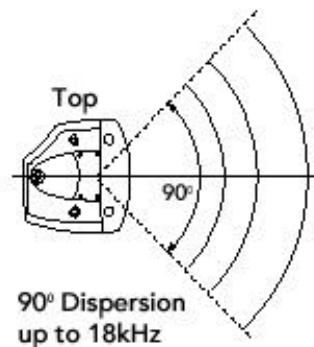
Monitor

SRM450 Magnetic Audio Video Tape,  
 Computer Disk

**Room Acoustic**

SRM450 Active Monitor 가

가 Room  
 Acoustic Sound System , SRM450





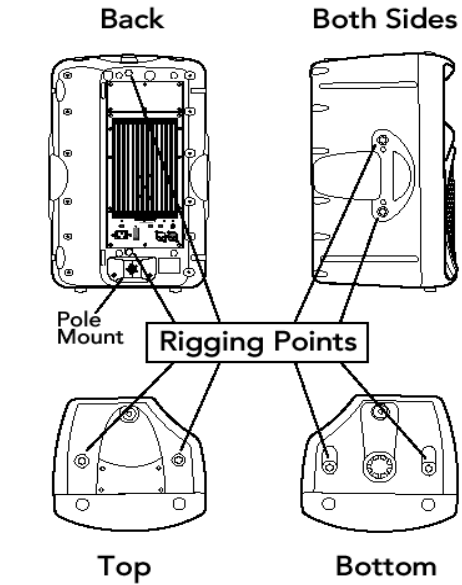
가  
 • Loudspeaker  
 Loudspeaker  
 Speaker  
 Speaker  
 Speaker  
 Delay  
 ( 가 1msec 1  
 , 1/10sec 30m )

**RIGGING**

SRM450

가  
 Active monitor  
 SRM450 Active  
 Monitor  
 SRm450  
 Dip Active Monitor Peak  
 Rigging Point  
 SRM450  
 Hardware,  
 Web  
 • High Frequency Driver 가  
 120Cm ( 60Cm )  
 Active monitor  
 Page

Low Frequency  
 Active Monitor  
 Sound System  
 Sound System



가  
 가  
 가? Sound System

가  
 VERY IMPORTANT  
 가 가  
 SRM450 LEVEL

가  
 Speaker  
 가  
 TIMED TURNOFF  
 가

## THERMAL CONSIDERATION ( )

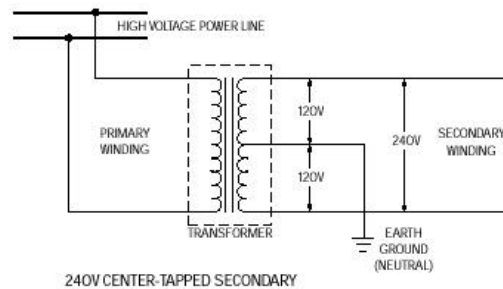
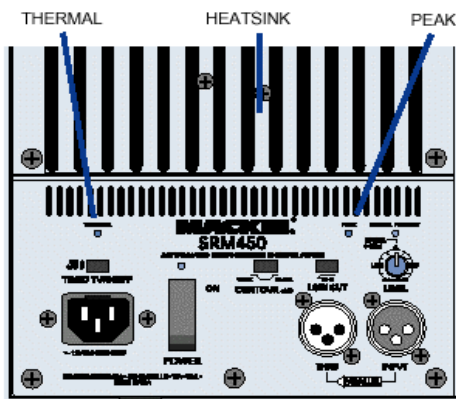
SRM450 2 Amplifier가  
 Amplifier가  
 Amplifier가  
 SRM450  
 가 가  
 가  
 Loudspeaker  
 SRM450  
 18Cm  
 Amplifier가  
 Thermal 가 , Amplifier  
 THERMAL Indicator  
 POWER LED  
 Amplifier가  
 가 가  
 Thermal  
 Power LED  
 LED Thermal  
 SRM450  
 PEAK LED가  
 LEVEL 가 2  
 Amplifier가  
 가  
 Amplifier가  
 가  
 가

## AC POWER CONSIDERATION ( )

SRM450  
 97% Amplifier  
 가 ( 75%  
 가 Headroom  
 가 )  
 가 Clipping  
 SRM450 120V 2.5amp  
 , 240V 1.3 amp 가  
 1amp  
 AC Power  
 , Amplifier  
 AC Line  
 Line 가 , Speaker AC  
 , Bass Peak  
 . Bass 가  
 가 Amplifier

## AC Power Distribution (AC Power )

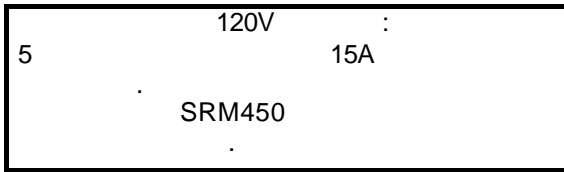
240VAC 가 AC  
 Transformer ) ( AC  
 120V ,  
 Power )  
 Light-Dimmer ( , SCR )



가 , 가  
Hum 가 가  
Tape Deck, CD Player, Effect Processor, Mixer SRM450 가  
3 (Ground)가 2  
Multi-Tap 가  
가 , AC 가 Tester



AC Multi-Tap .)

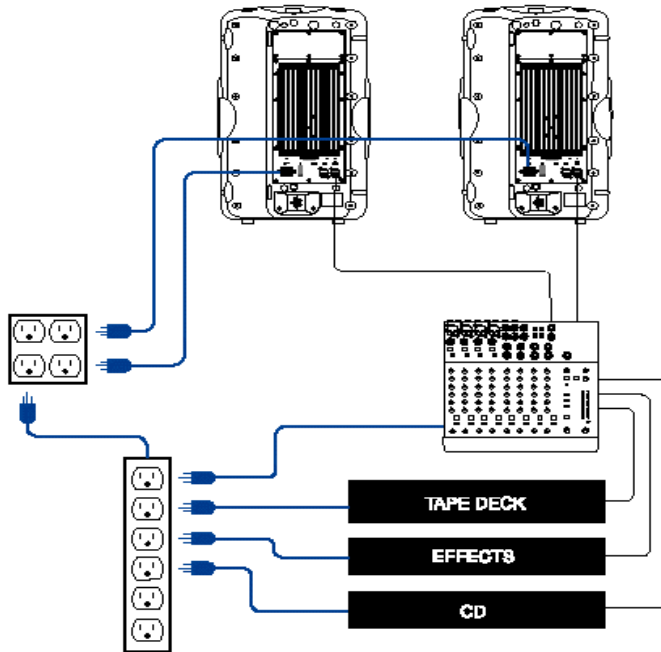


Hot Cold

---  
SRM450 가 Source !  
---  
SRM450 가 Source !  
---



SRM450



SRM450 : AC

**SERVICE INFORMATION**

( )

**Warranty Service( )**

MACKIE ( ) 가  
Loudspeaker 가 ,

MACKIE Loudspeaker가



LEVEL

가  
가 Speaker가  
가

**Troubleshooting( )**

**No Power! ( 가 )**

- SRM450 ?  
AC 가 Tester Lamp
- SRM450 Power 가 ?
- LED ?  
AC 가
- No Sound 가 가

**No Sound! ( 가 )**

- LEVEL ? 가 Quick Start Volume
- Source( ? , CD Player....) 가 ?
- 가 Pre-Amplifier Mixing Console 가 Speaker 가

**SIGNAL**

**PRESENT LED**

- Preamp Mixing Console Mute가 Tape Processor 가

Volume Gain

- THERMAL LED SRM450 ? 16cm

SRM450

가

- ! 가
- Active Speaker Volume ?
- PAN Signal Source Stereo Signal Source Stereo
- Signal
- Monitor Cable , Mixing Console , Active Monitor 가 Active Monitor Mixing Cable
- 가 Active Monitor Mixing Cable
- 가 Mixing Console Signal

**Bass** 가

- Mixer Preamp Cable Active Monitor
- Cable

SRM450

**Hum( )**

- LEVEL Signal
- Source INPUT Jack

Cable

SRM450

가

**SRM450 Shot**

**Down**

- PEAK LED가

Balanced Cable



SRM450 Level 가 ( Ear Protector)

LED

SPL 120dB PEAK 가



가 Audio Linecord

가

SRM450

- Hum k Unbalanced

Preamp, CD Player, VCR

Unbalanced

Balanced

Linecord가 3

가

2

가

)

Line

Shield Source 3

XLR RCA

**Bad Sound!**

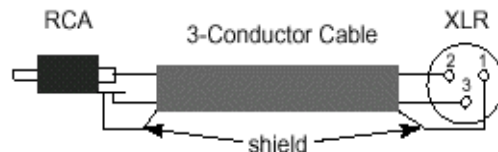
- 가 ?
- Quick Start Level
- Connector가 ? Connector가

Connector Cleaner

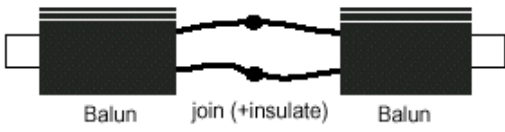
**Noise( )**

- Active Monitor 가
- Signal Cable AC Cable EMI
- Power Transformer 가

- SRM450 Mixing Console Light(Light Dimmer) SCR
- AC
- ? AC Line Filter
- SRM450 AC



- Cable (Repair)
- TV, TV, Cable
- SRM450 ( ) 가
- VCR, 가
- TV Preamp ( )
- (Hum) Cable ( )
- Line 가
- 가 TV baluns 가



**CARE AND MAINTENANCE**

- Balun Cable (75ohm) TV ( )
- 2 (300ohm)
- Video
- (Hum)
- Mixer Pre-amp



- Hum( )
- ( )

Mackie Active Monitor 가

가 Active Monitor

- SRM450 Mixer Pre-amp
- Cable
- Mixer Pre-amp

가

( :-10 ~45 )

15 Voice-Coil

- 가 LOW CUT FILTER
- Hum
- 가 LOW CUT FILTER

Cabinet 가 Driver

Cabinet 가