Karsect

KRV-10 KRV-20

vhf

WIRELESS SYSTEM

THE GUITARIST

THE PRESENTER

THE VOCAL ARTIST

THE HEADSET

我们非常感谢阁下购买本产品，请详细阅读本操作说明书，以便了何正确地操作你所购买的这一型号产品。在你读完本说明之后，请将存在一个安全的地方，以作日后参考。

KS系列专业无线麦克风系统，采用美国高效低耗射频发射技术、超敏度VHF宽带高频接收器，以及优于10ppm的石英晶体锁定频率，并面立开发的动态音频压缩、扩展电路、镜频抑制电路、多重检测静噪电分集接收电路、开关冲击消除电路、抗回输电路缓变输出控制等技术，用电脑EDA，模拟在线辅助设计和严格的产品质量监控，使每套系统具越的电性能。

前言

KS系列无线系统将为你带来增音世界中弥足珍贵的行动自由和卓质。本手册介绍KS系列中的各种产品：Vocal Artist-VHF、Presenter-Headset-VHF以及Guitarist-VHF。

系统特点

*Karsect*列产品具有各种卓越的特点，包括：

1. 自动选信号分集接收机：接收机不断地处理从每根天线接收的射频(RF)自动选择最佳信号，形成音质卓越的单一信号，从而改善接收效果，有效地号“盲点”。
2. 多种系统并用：在同一演出场所可使用多套系统，每套系统必须频率不同Karsect的授权经销商。（频率标记在接收机的后面）。
3. 同时输出：非平衡1/4"听筒插头和平衡XLR输出连接器可同时插接到不部设备上。
4. 接收机可叠置或安装在托架上：如果多套系统并用，天线不得互相接叉。（参看图1）
5. 送音范围：KS系列发射机距接收机的最大送音范围为150米(约450英尺
6. 噪音抑制：静噪电路既分析信号的强度，又分析信号的质量，从而有效地境中射频噪音脉冲串。
7. 接收天线：标准BNC头，既可使用配机伸缩天线，又能连接其他场合的统，更具灵活性。
8. 高性能限幅器：发射机采用了高性能可调节限幅器，它能有效地限制态信号时切峰失真，保护音响器材的安全。
9. 低电池警告指示灯：贴身式或手握式发射机上的红灯如发亮，就是提醒使意电池只剩下不足一小时的使用寿命。

系统类型

*Vocal Artist-VHF*是一种手握式系统，专为向往KS无线系统之自由的歌手

*Presenter-VHF*是一种贴身式系统，系为喜欢使用不用手握、藏而不挂话筒的演讲人设计。

*Headset-VHF*是一种贴身式系统，适用于动作范围大，向往免握话筒自由的使用者。

*Guitarist-VHF*是一种贴身式系统，与电吉它、低音吉它，以及其他器配合使用。

系统部件

部件	Vocal Artist-VHF	Presenter-VHF	Headset-VHF	Guitarist-VHF
发射机	KST-53V	KLT-80V		KGT-90V
话筒	-	L-01	H-08	G-05
接收机	KRV-10 KRV-201			
电源	HD41N110(220伏交流,50赫)或HD41N110E(120伏交流,60赫)			
配件	话筒咪适配器	-	-	-

接收机叠置或中安装在托架上

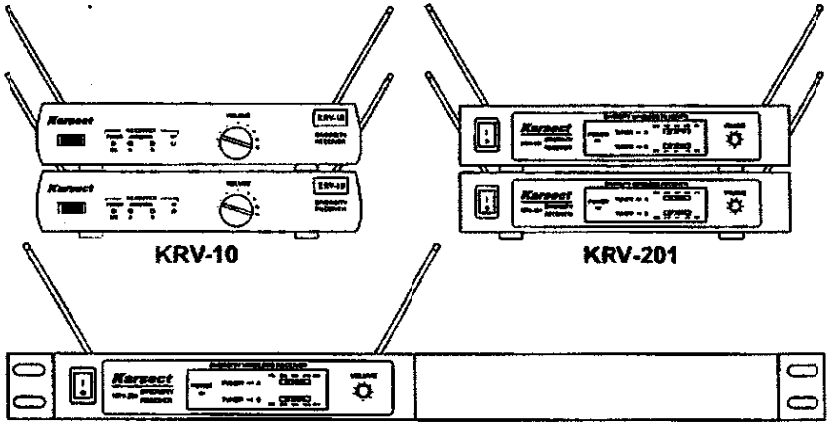

图1

＊接收机叠置或安装在机架上，注意天线不得互相交叉或接触（见图1）

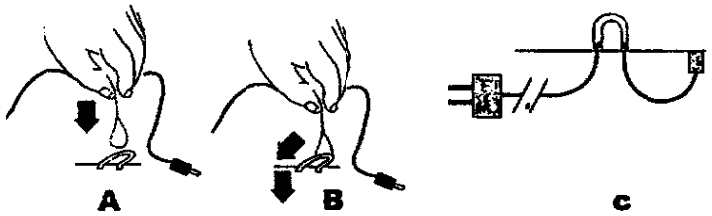

图2

把交直流转换器电缆压入固定扣 （适用机型 KRV-10）

1. 参看图2，把接收机转过来，找到电缆线固定扣位置，从交流直流转换器直流插塞一端约6英寸处，捏住转换器的电缆线，形成一个套环(图A)，竖直向下套住固定扣，卡入其弯弧。

2. 使电缆线与固定扣保持垂直，将固定扣朝上拖起(B)，然后面朝下拖，使电缆线夹入固定扣(C)。

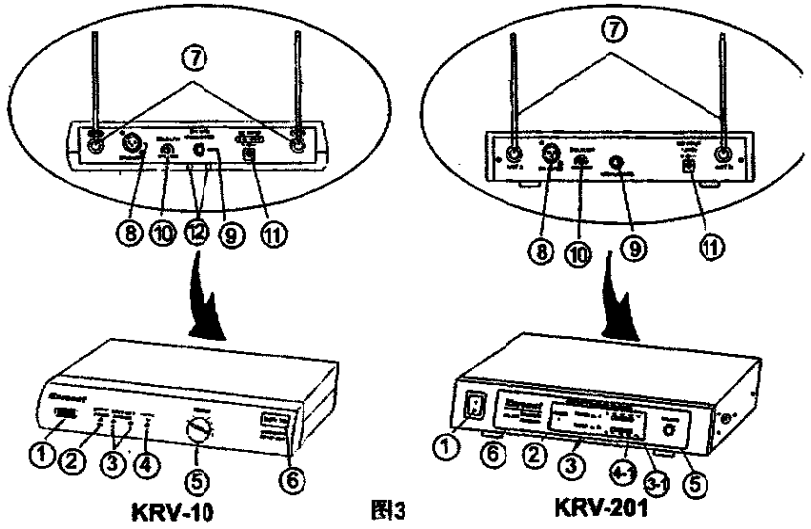

图3

KRV-10/KRV-201分集接收机特点(图3)

1. 电源开关：接通/关闭接收机电源。

2. 电源指示灯：接收机插入电源后，推动开关，该灯即发红光，表示电源接通。

3. 分集指示灯：分集信号指示器有A/B信道两个指示灯，当接收机接收到发射机的射频信号时，相应的信号灯就发黄光。注：当发射机距接收机大约10米左右(约3英尺左右)移动时，A或B信道自动转换，A灯亮，表示选用A信道，B灯亮，表示选用B信道。

3-1. 信号电平灯：当接收机接收到发射机的射频信号时，指示信号的强度。(只有红灯亮时，表示接收机已不能正常工作。)＊适用机型KRV-201＊。

4. 音频指示灯：当对着发射机讲话或演唱时，接收机的"AF"音频信号指示灯会对应话筒的音量大小而点亮。＊适用机型KRV-10＊。

4-1. 音频电平灯：当对着发射机讲话或演讲时，接收机的"AF LELVE"音频电平灯会对应话筒的音量大小而闪动。＊适用机型KRV-201＊。

5. 音量控制钮：旋转该旋钮可提高或降低接收机的输出音量。

6. 型号：接收机型号。

7. 天线插座：可使用配机伸缩天线和连接其他天线系统。

8. XLR声频输出连接器：(平衡低阻抗)：用XLR声频电缆从本连接器接到您的混音器输入。

9. 1/4"听筒塞孔声频输出连接器(非平衡高阻抗)：可用1/4"听筒插塞的非平衡声频电缆(例如，标准吉他电缆)把本连接器接至你的放大器输入。

10. 静噪控制：用于调节噪音抑制设定，以强化信号质量或系统范围。这个控制已在工厂预设好，通常无需再做调节。参看"接收机噪音调节"一节的进一步说明。

11. 电源输入插孔：把交直流转换器插入此插孔，另一端插头插入交流电插座，(注意：请使用配机AC交直流转换器)。

12. 电缆固定扣：把AC交直流转换器的电缆固定到接收机上。＊适用机型KRV-10＊

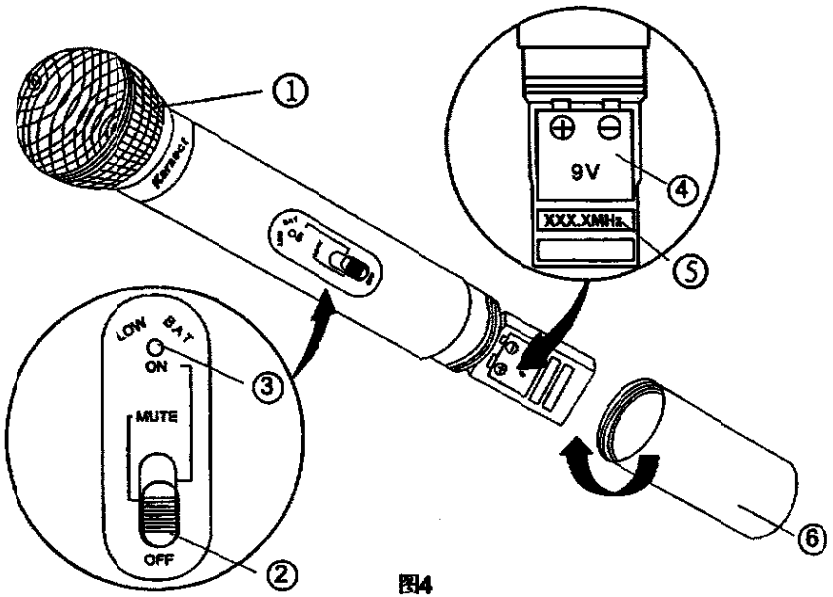

图4

KST-53V手持式发射机特点(图3)

1. 受音频: 内置传声器组件。
2. 电源及静音开关:推动开关至"ON"档,指示灯会短暂点亮一次,推动开关至"MUTE"位, 可抑制发射机的声音,避免"动作"噪音,例如接通/断开发射机时发出的声音,该开关设在凹槽内,以防意外断开电源。
3. 低压指示灯:红灯亮表示电池工作寿命已不足一小时,提醒使用者及时更换。
4. 9V电池:(见图)为话筒-发射机提供电源。
5. 频率标签: 发射机的载波频率。
6. 电池盖:拧开后可接触到9V电池。

把KLT-80V贴身式发射机固定到皮带或吉它背带上

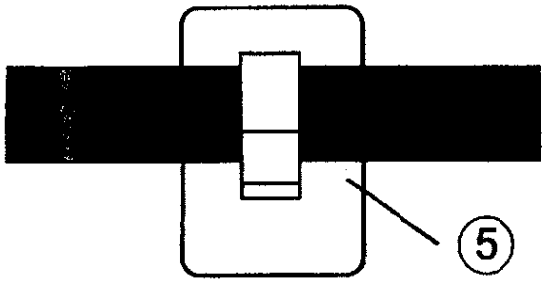

图5

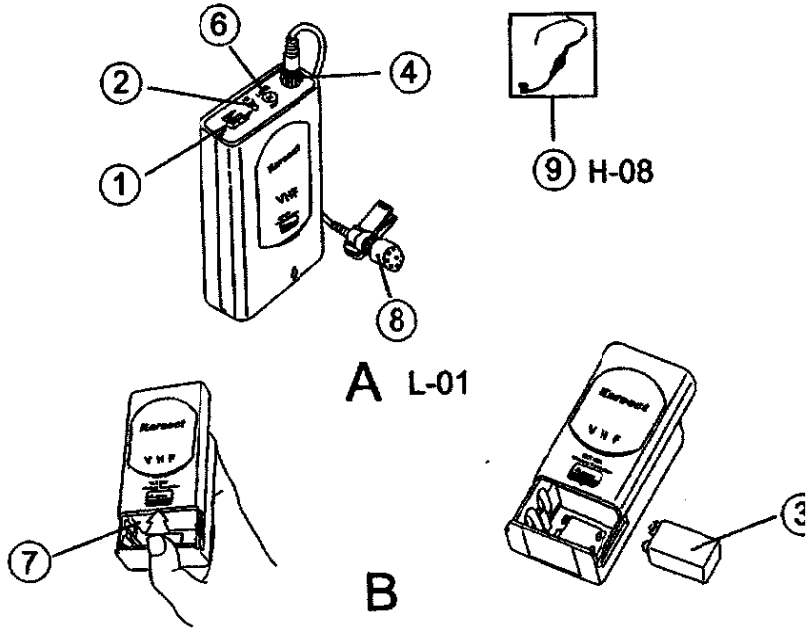

图6

KLT-80V贴身式发射机特点(图6

1. 电源及静音开关:推动开关至"ON"档,指示灯会短暂点亮一次,当推动开关至"MUTE"位时,抑制发射机的声音,避免"动作"噪音,例如接通/断开发射机时发出的声音,该开关设在凹槽内,以防意外断开电源。
2. 低压指示灯:红灯亮表示电池工作寿命已不足一小时,提醒使用者及时更换。
3. 9V电池:(见图)为话筒-发射机提供电源。
4. 输入连接器:采用 G - 05 连接器,可与多种颈式或耳机式话筒电缆及乐器适配器电缆连接。
5. 皮带夹:把发射机固定到皮带、腰带或吉他背带上。图(6)
6. 声音增益控制钮:调节声频声级,以适应各种强度的输入信号(对着话筒讲或弹奏乐器).出厂前预设在中间位上.如需调节,用随机提供的螺丝刀,顺时针动, 增大声音增益,逆时针拧动减少声音增益。
7. 电池盒:按住发射机正面向上推,(如图5-B所示)按图示装入一块9V电池。
8. 颈挂式话筒:(图示L-01).
9. 耳机式话筒:(图示H-08).

使用Vocal Artist-VHF系统

1. 参看图7，把随机提供的交直流转换器一端插入接收机背后的直流输入连接器，把转换器的电缆线夹入固定扣"适用机型KRV-10"，把其另一端插入墙壁插座或其他交流电源(HD41N110使用220伏/50赫电源，HD41N110E使用120伏/60赫电源)，推动接收机正面电源开关，电源灯发红光。
2. 用XLR-XLR声频电缆把接收机的XLR声频输出连接器接至混音器的输入，或用1/4'-1/4"听筒插塞电缆把接收机的1/4'声频输出连接器接至放大器输入。
3. 将配机的BNC头拉杆天线插入接收机后面的BNC天线座，并顺时针旋转至卡住，拉出天线，并与垂直线成45度夹角。
4. 把手持式发射机推动开关至"ON"档，指示灯会短暂点亮一次，接收机分集指示灯A或B发亮。注：当发射机距接收机大约10米左右(约30英尺左右)移动时A或B信道自动转换。
5. 对着话筒说话或唱歌，接收机的"AF"音频信号指示灯会对应话筒的音量大小而闪亮。
6. 调节接收音量旋钮和混音器或放大器的音量调节器，以达到合适音量。
7. 演出结束后，关闭扩音系统，并把接收机和发射机的电源开关拔到关闭位置。

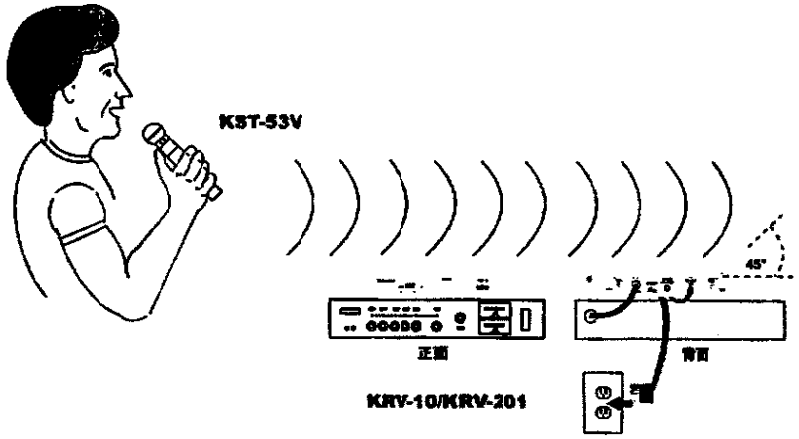

图7

使用PERSENTER-VHF系统

1. 参看图8，把随机提供的交直流转换器一端插入接收机背后的直流输入连接器把转换器的电缆线夹入固定扣"适用机型KRV-10"，把其另一端插入墙壁插座或其他交流电源(HD41N110使用220伏/50赫电源，HD41N110E使用120伏/60赫电源)，推动接收机正面电源开关，电源灯发红光。
2. 用XLR-XLR声频电缆把接收机的XLR声频输出连接器接至混音器的输入，或用1/4'-1/4"听筒插塞电缆把接收机的1/4'声频输出连接器接至放大器输入。
3. 将配机的BNC头拉杆天线插入接收机后面的BNC天线座，并顺时针旋转至卡住拉出天线，并与垂直线成45度夹角。
4. 把L-01颈挂式话筒压入话筒夹，然后把话筒夹夹到您的衣服上，注意话筒不要让衣服遮住，并且话筒应距您的下巴约8~12英寸左右。(参看图5)另一头再插入音频插座后旋紧。
5. 把发射机凹槽中的电源开关拔到"ON"位，指示灯会短暂点亮一次，接收机分集指示灯A或B发亮。注：当发射机距接收机大约10米左右(约30公尺左右)移动时A或B信道自动转换。
6. 调节接收音量旋钮以及混音器或放大器的音量调节器，以达到合适音量。如需调节发射机的增益，参看("发射机声频增益调节")一节说明。
7. 演出结束后，关闭扩音系统，并把接收机和发射机的电源开关拔到关闭位置。

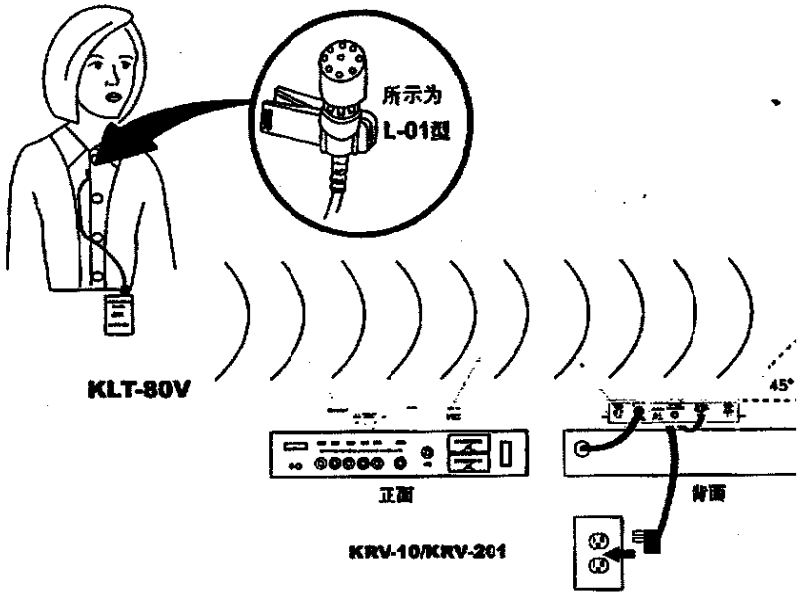

图8

使用HEADSE-VHF系统

1. 参看图9,把随机提供的交直流转换器一端插入接收机背后的直流输入连接器,把转换器的电缆线夹入固定扣"适用机型KRV-10",把其另一端插入墙壁插座或其他交流电源(HD41N110使用220伏/50赫电源,HD41N110E使用120伏/60赫电源),推动接收机正面电源开关,电源灯发红光。
2. 用XLR-XLR声频电缆把接收机的XLR声频输出连接器接至混音器的输入,或用1/4'-1/4'听筒插塞电缆把接收机的1/4'声频输出连接器接至放大器输入。
3. 将配机的BNC头拉杆天线插入接收机后面的BNC天线座,并顺时针旋转至卡住,拉出天线,并与垂直线成45度夹角。
4. 如果第一次使用耳机式话筒,请先阅读耳机式话筒标签上有关安装说明,另一头再插入音频插座后旋紧。
5. 把发射机凹槽中的电源开关拔到"ON"位,指示灯会短暂点亮一次,接收机分集指示灯A或B发亮.注:当发射机距接收机大约10米左右(约30公尺左右)移动时A或B信道自动转换。
6. 调节接收音量旋钮和混音器或放大器的音量调节器,以达到合适音量。如需调节发射机的增益,参看"发射机声频增益调节"一节说明。
7. 演出结束后,关闭扩音系统,并把接收机和发射机的电源开关拔到关闭位置。

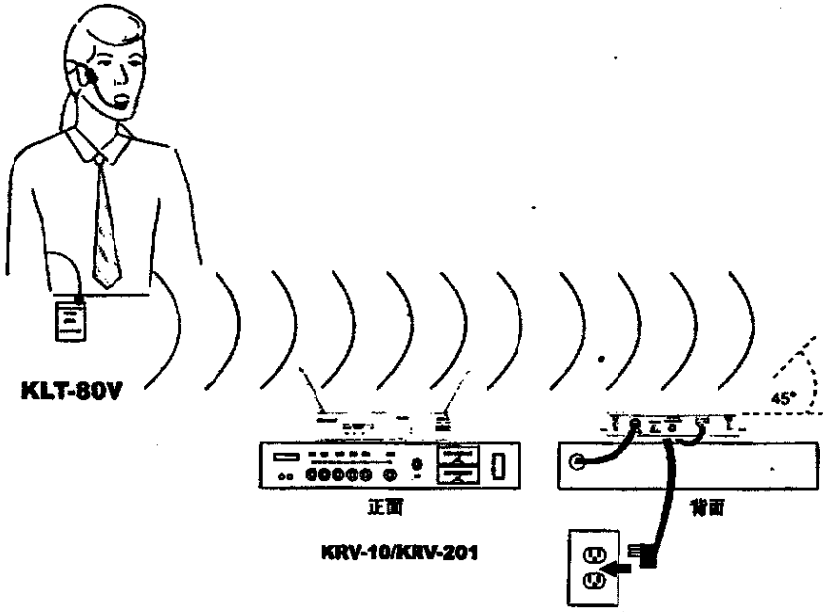

图9

使用GUITARIST-VHF系统

1. 参看图10,把随机提供的交直流转换器一端插入接收机背后的直流输入连接器把转换器的电缆线夹入固定扣"适用机型KRV-10",把其另一端插入墙壁插座或其他交流电源(HD41N110使用220伏/50赫电源,HD41N110E使用120伏/60赫电源),推动接收机正面电源开关,电源灯发红光。
2. 将配机的BNC头拉杆天线插入接收机后面的BNC天线座,并顺时针旋转至卡住拉出天线,并与垂直线成45度夹角。
3. 用标准吉它电缆把接收机的1/4"听筒塞孔声频输出连接至放大器的输入。
4. 用乐器适配器把电吉它或低音吉它接至发射机的输入孔并旋紧。
5. 把吉它音量调节至合适水平,有关把无线输出调节到和有线系统输出一样的说明,请参看"接收机连接GUITARIST-VHF的音量调节"一节。
6. 把发射机凹槽中的电源开关拔到"ON"位,指示灯会短暂点亮一次,接收机分集指示灯A或B发亮.注:当发射机距接收机大约10米左右(约30公尺左右)移动时A或B信道自动转换。
7. 演出结束后,关闭扩音系统,并把接收机和发射机的电源开关拔到关闭位置。

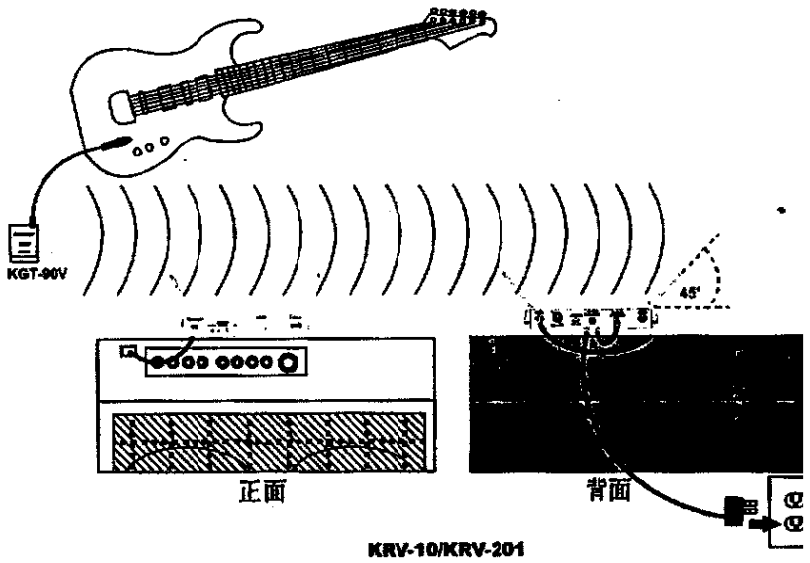

图10

接收机连接GUITARIST-VHF的音量调节

1. 把乐器直接接入吉它/低音吉它的放大器，将乐器和放大器上各自的音量和微调钮调到合适的位置，以获得清晰的信号和良好的音质及音量为准。在随后的调节中，不要再改变这些设置值。
2. 把乐器从放大器输入拔下，插到发射机上。把接收机插入放大器的输入。
3. 调节接收机音量控制钮，使音质达到以上第1步的调节水平。

接收机抑噪调节

接收机的抑噪控制钮已在工厂预设到最佳位置，一般情况下不必更动。但在某些情况下为了加强信号质量或系统范围，如需重新调节：

- 顺时针转动抑噪控制钮将导致接收机允许较低质量的信号输入，但扩大其接收范围。（向"max"方向转）
- 逆时针转动抑噪控制钮将导致接收机要求较高质量的信号输入，但缩小其接收范围。（向"min"方向转）

如需将接收机的抑噪控制钮恢复到工厂预设值，把该钮调到中间位即可。

发射机声频增益调节

发射机在出厂前均预设到中间位置。在大多数演出场合应可获得最佳效果。当歌手或演讲者吐音较轻或吉它/低音吉它的输出较低时，就可能需要做这样的调节。

- 提高增益：用合适的螺丝刀顺时针拧动发射机增益控制钮，提高声频增益。
- 降低增益：用合适的螺丝刀逆时针拧动发射机增益控制钮，降低声频增益。

如需将声频增益恢复到工厂预设值，只要把发射机增益控制钮调到中间位即可。

获得最佳音响效果的要点

- 从发射机的位置应始终能看见接收机上的天线。
- 发射机和接收机之间的距离应尽量短。
- 接收机的天线应互相分开及拉长，与垂直线成45度夹角。
- 注意不要让接收机的天线靠近金属表面和遮蔽物。
- 注意电池指示灯，红灯发亮后应及时更换。
- 在多系统并用场合，接收机如叠置，不要让天线互相接触或交叉。
- 正式演出或演讲开始之前，务必对音响系统做一次"排练测试"。如发现有死点，应调节接收机位置。如死点仍然存在，将死点标出，演出时避免走到此处。

故障检修

故障	指示器状态	解决方法
没有声音	发射机指示灯不闪亮	查看电池安装情况，保证极（+/-）正确。如果电池安装没有问题，换上新电池再试试
没有声音	发射机指示灯闪亮	检查开关是否拨到中间："MUTE"位置，推动到"ON"位置
没有声音	接收机红色指示灯不亮	检查并确认交直流转换器两端分别牢固插入墙壁插座和接收机机的直流输入插孔。检查并确认墙壁电源插座性能完好，电压值正确。
没有声音	接收机分集A/B指示灯亮	拧高接收机的音量控制钮，检查并确认接收机输出连接器至外部设备之间的连接完好
没有声音	接收机分集A/B指示灯不亮，红色电源灯亮	检查并确认发射机和接收机的频率相同把发射机靠近接收
和有线乐器的声级不同	接收机分集A/B指示灯亮	根据需要调节发射机增益和接收机音量
失真程度逐步提高	接收机分集A/B指示灯亮	更换发射机电源
有阵阵噪音或电台广播声音	接收机分集A/B指示灯不亮	查找干扰源（其他射频干扰源）将之关闭或移开，或换用一套频率不同的系统。（或适当调节接收机抑噪调节）
在演出场地移动过程中声音偶尔丢失	声音丢失时分集A/B指示灯不亮	改变接收机位置并对系统再做一次"排练测试"如仍发现有死点，将死点标出，演出时避免走到此处。（或适当调节接收机抑噪）

系统技术规格

射频载波范围：约170至260MHz（具体频率取决于系统使用所在国的技术规定）

送音范围：在一般场合为150米（约450英尺）。

声频响应：50至15,000Hz，±3dB。

系统失真：<0.5%。

动态范围：>100dB。

工作温度范围：

-29°至74°（-20°至165F°）注：电池特性可能对温度范围有进一步限制。

KST-53V手握式发射机技术规格

电源要求	9V碱性电池
标称电流消耗	< 25mA
调制方式	FM
射频输出	> 13dBm
最大调制度	±35KHz
高次谐波	低于主波55dB以上
尺寸	23.5CM X 5CM X 5CM

KLV-80V贴身式发射机技术规格

电源要求	9V碱性电池
标称电流消耗	< 25mA
调制方式	FM
射频输出	> 13dBm
最大调制度	±35KHz
高次谐波	低于主波55dB以上
尺寸	15CM X 6.3CM X 2.2CM

选购附件

吉它电缆（仅Guitarist-vhf系统）.....(G-05)

乐器适配器电缆.....(WA302)

1.8米（6英尺）接收机-混音器电缆.....(WA401)

FOREWORD

Thanks for purchasing this product, please read this instruction carefully so that can understand how to operate the product of the style you bought correctly. Please store this instruction in a safe place after reading as a reference in the future.

This professional KS-series wireless microphone system used an efficient American, low consumption discharging technique with a super sensitive VHF high broadband frequency receiver and controlled with 10ppm crystal, matched with an independent developed mobile frequency compression, expander circuit, image frequency limiting circuit, a multiple checked silent and noisy circuit, diversity receiving circuit, switch impact noise defeat circuit, resist reverberation circuit and changed output controlled slowly...ect, And designed by a computer EDA system and finished on its item named pattern line .Every system is available to an excellent electric function by Q.C. strictly.

INTRODUCTION

Your new KS-wireless Series system is designed to give you the best of both soun reinforcement worlds: the freedom of a wireless system, and the excellent quality This manual covers each of the KS Series system: The Vocal Artist-VHF, The Presente VHF, The headset-VHF, and The Guitarist-VHF.

SYSTEM FEATURES

All KS Series systems offer a variety of exceptional features, including:

1. Diversity Receivers with Auto Selecting Signal: Receivers continuously processes the RF signal from each antenna and auto selects the best signal, producin one signal of optimum quality. The result is improved reception and exceptional freedor from dropouts.

2. Multiple System Use: Up to several KS systems can be used in the same performance space. Each system must be set at a different frequency. (Frequency marked on the back of the receiver)

3. Simultaneous Output Use: Unbalanced 1/4" phone plug and balanced XLR outpu connectors may be used simultaneously to different external devices.

4. Stackable and Rack-Mountable Receivers: If multiple systems are in use, In these situations, antennas should not touch or be crossed. (see figure 1)

5. Range: KS Series transmitters will work at a distance of up to 150 meters (about 450 ft.) from the receiver.

6. Noise Squelch: Squelch circuit analyzes signal strength and quality, So that car reduces the likelihood of noise burst due to environmental RF (radio frequency) noise

7. Receiving Antenna: Normal BNC plug, It is allowed to use supplied telescopic antenna or other antenna system .

8. Regulated Amplitude: Transmitter is used high property valve value regulated amplitude limiter which is limits efficaciously peak value distortion when the great dynamic signal occur, so that protect the audio equipment .

9. Low Battery Warning Light: A red light on the body-pack and hand -held transmitter warns the user that there is less than one hour of battery life left.

SYSTEM TYPE

THE Vocal Artist-VHF is a hand-held system designed for singers who desire th high quality of KARSECT microphones and the freedom of wireless performance.

The Presenter-VHF is a body-pack system designed for public speakers wh prefer an inconspicuous , hands-free lavalier microphone.

The Headset-VHF is a body-pack system designed for users in physically activ applications, who desire the freedom of hand-free microphone.

The Guitarist-VHF is a body-pack system designed for use with electric guitars basses, and other electric instruments.

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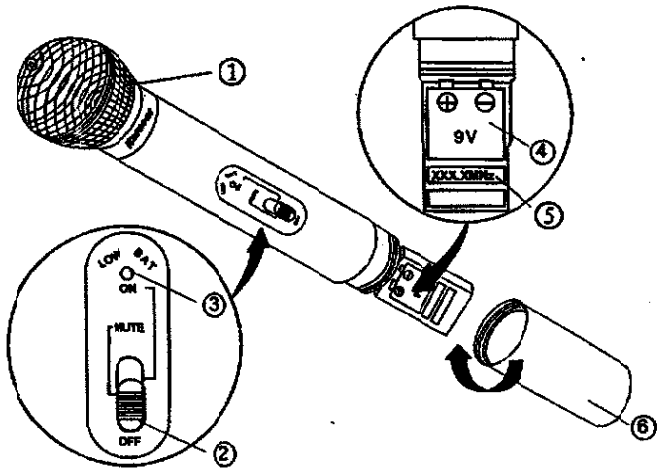

FIGURE 4

KST-53V MICROPHONE-TRANSMITTER FEATURES (FIGURE 4)

1. Grille : Protects the microphone cartridge and helps reduce breath sounds and wind noise. The grilles for the various microphone heads differ in appearance.

2. Power and Audio Mute Switch : put the switch to ON position, the indicator shines for a moment. Put the switch to "MUTE", Allows muting of the microphone audio, avoiding the "thump" noise that can occur when turning of the microphone audio. It is recessed to prevent it from being accidentally turned off.

3. Low Battery Indicator : A red light glows when there is one hour or less of useful operating time, allowing battery to be changed before power is depleted.

4. 9V Battery (shown installed) : Provides power to the microphone- transmitter.

5. Frequency Mark :carrier frequency of transm itter.

6. Battery Cover : Unscrews for access to the 9v battery and gain control.

ATTACHING THE KLT-80V BODY-PACK TRANSMITTER TO BELT OR GUITAR STRAP

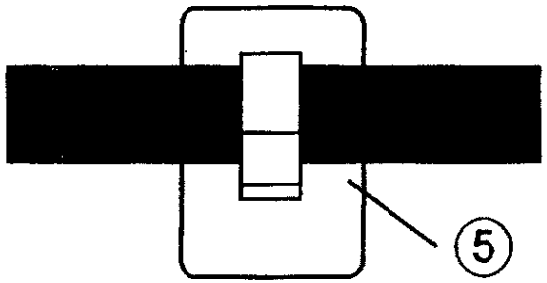

FIGURE 5

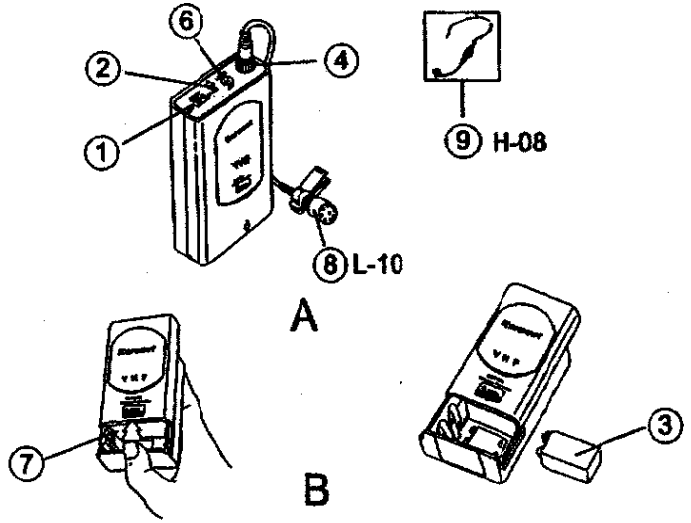

FIGURE 5

KLT-80V BODY-PACK TRANSMITTER FEATURE (FIGURE 5)

1. Power and Audio Mute Switch : Put the switch to ON position, the indicat shines for a moment. Put the switch to "MUTE", Allows muting of the microphor audio, avoiding the "thump" noise that can occur when turning of the microphor audio. It is recessed to prevent it from being accidentally turned off.

2. Low Battery Indicator : A red light glows when there is one hour or less useful operating time, allowing battery to be changed before power is deplete

3. 9V Battery (shown installed) : Provides power to the microphone- transmitt

4. Input Connector : Miniature connector (G-05) allows connection to a varie of lavalier and headset microphone cables and instrument adapter cable.

5. Belt Clip : Secures the transmitter to a belt, waistband or guitar strap.

6. Audio Gain Control : Provides audio level adjustment to accommoda various input signal strengths (e.g., speaking into a microphone or playing instrument). The factory setting is at mid-point. Use a small screwdriver to ma adjustments. Rotate the transmitter gain control clockwise with the screwdriv to increase the voice gain. Rotate the transmitter gain control counterclockwi to decrease the voice gain.

7. Battery Compartment : Pushing up the cover of transmitter (5-B Show puts one 9v battery into battery compartment.

8. Lavalier Microphone : (L-01 shown).

9. Headset Microphone : (H-08 shown)

OPERATING THE VOCAL ARTIST-VHF SYSTEM

1. Refer to Figure 7, Connect the supplied ac power adapter into the DC INPUT connector in back of the receiver. Insert the adapter's cable into the power cable retainer. (*suit of KRV -10*) Plug the adapter into a wall socket or other ac power source (use HD41N110 for 220VAC, 50Hz power, useHD41N110E for 120VAC, 60Hz power). Push the power switch on the face of the receiver , the red POWER light on the receiver will glow.
2. Connect the receiver's XLR AUDIO OUTPUT connector to the mixer input using an XLR to XLR audio cable or connect 1/4" Audio output connector of receiver to the amplifier input by a 1/4" to 1/4" phone plug cable.
3. Insert supplied BNC plug of antenna into the BNC Antenna terminal. That in the back of the receiver. And fully rotate clockwise, position the antennas at a 45 angle from vertical.
4. Slide the transmitter's POWER/OFF switch to the POWER position, the indicator shines for a moment at that time, the receiver's DIVERSITY A/B lights will glow. (note : channel A or B will transfer automatically when transmitter moving from receiver for about 10 meters (about 30 ft).
5. Talk or sing into the microphone. "AF" auto signal indicative light of receiver is glowing according to the volume of transmitter.

Adjust receiving volume knob, and the volume adjustment of mixer or amplifier to get a suitable volume.

7. When the performance is over, turn off the sound system and slide the transmitter's POWER/OFF switch to the OFF position to conserve battery power.

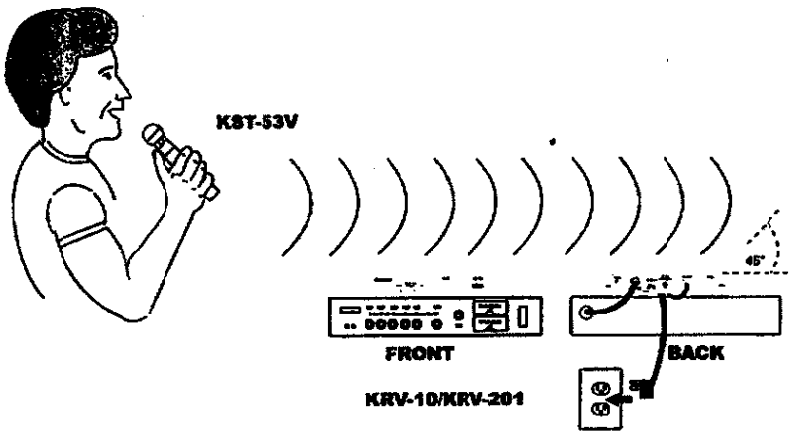

FIGURE 7

OPERATING THE PRESENTER-VHF SYSTEM

1. Refer to Figure 8 , Connect the supplied ac power adapter into the DC INPU connector on the back of the receiver. Insert the adapter's cable into the powe cable retainer. (*suit of KRV-10*) Plug the adapter into a wall socket or othe AC power source (use HD41N110 for 220VAC, 50Hz power, use HD41N110I for 120V AC, 60Hz power). Push the power switch on the face of the receiver the red POWER light will glow.
2. Connect the receiver's XLR AUDIO OUTPUT connector to the mixer inpu using an XLR to XLR audio cable or connect 1/4" Audio output connector c receiver to the amplifier input by a 1/4" to 1/4" phone plug cable.
3. Insert supplied BNC plug of antenna into the BNC Antenna terminal. Tha in the back of the receiver. And fully rotate clockwise, position the antennas a a 45 angle from vertical.
4. Press the L-01 lavalier microphone into the mounting clip and attach it to you garment. Do not cover the microphone with your clothing , and keep it approximatel 8 to 20 inches below your chin. (See Figure 8) Insert the other side into audi socket and fully rotate.
5. Slide the recessed transmitter POWER/OFF switch to the POWER positio the indicator shines for a moment at that time, the receiver's DIVERSITY A/ lights will glow. (note: channel A or B will transfer automatically when transmitt moving from receiver for about 10 meters (about 30 ft).
6. Adjust receiving volume knob,and the volume adjustment of mixer or amplifi to a suitable volume. Transmitter gain may need to be adjusted. (Refer to th Transmitter Audio gain Adjustment section.)

When the performance is over, turn off the sound system and slide the transmitter

7. POWER/OFF switch to the OFF position to conserve battery power.

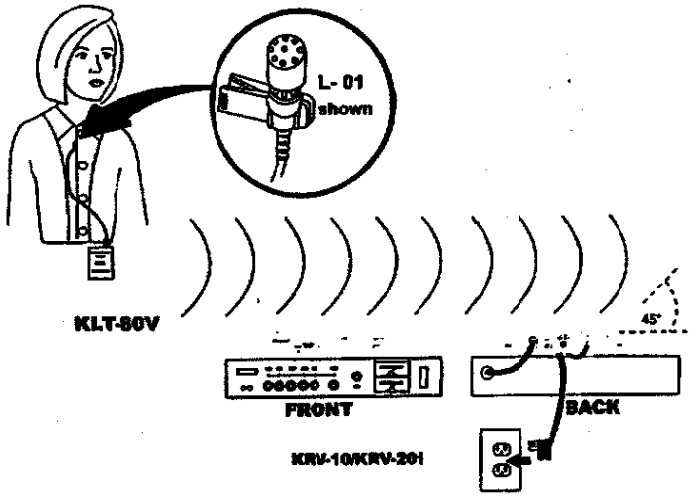

FIGURE 8

IOPERATING THE HEADSET-VHF SYSTEM

1. Refer to Figure 9, Connect the supplied ac power adapter to the DC INPUT connector on the back of the receiver. Insert the adapter's cable into the power cable retainer. (*suit of KRV-10*) Plug the adapter into a wall socket or other ac power source (use HD41N110 for 220VAC, 50Hz power, use HD41N110E for 120VAC, 60Hz power). Push the power switch on the face of the receiver, the red POWER light on the receiver will glow.
2. Connect the receiver's XLR AUDIO OUTPUT connector to the mixer input using an XLR to XLR audio cable or connect 1/4" Audio output connector of receiver to the amplifier input by a 1/4" to 1/4" phone plug cable.
3. Insert supplied BNC plug of antenna into the BNC Antenna terminal. That in the back of the receiver. And fully rotate clockwise, position the antennas at a 45 angle from vertical.
4. If using the headset for the first time, refer to the tag attached to the headset for assembly instructions, the other side insert into the Audio Soket and fully rotate.
5. Slide the recessed transmitter POWER/OFF switch to the POWER position the indicator shines for a moment at that time, the receiver's DIVERSITY A/B lights will glow. (note: channel A or B will transfer automatically when transmitter moving from receiver for about 10 meters (about 30 ft).
6. Adjust receiving volume knob,and the volume adjustment of mixer or amplifier to a suitable volume. Transmitter gain may need to be adjusted. Refer to the Transmitter Audio gain Adjustment section.
7. When the performance is over, turn off the sound system and slide the transmitter's POWER/OFF switch to the OFF position to conserve battery power.

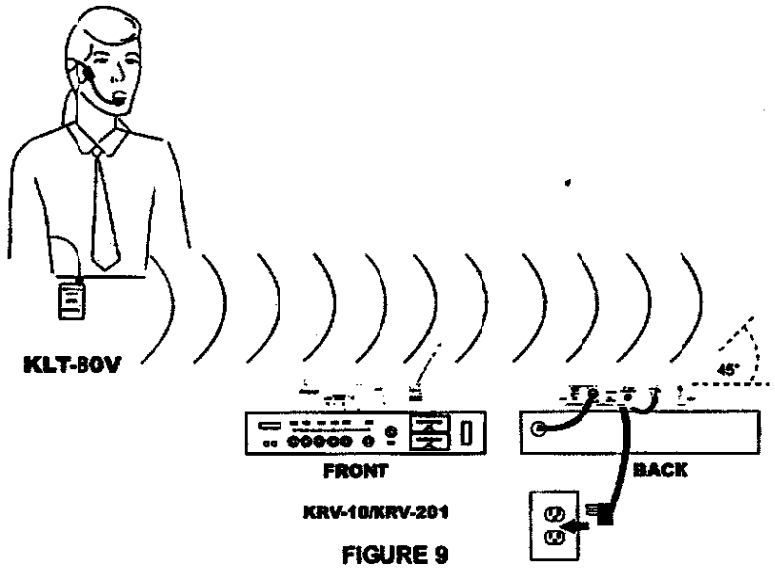

FIGURE 9

OPERATING THE GUITARIST-VHF SYSTEM

1. Refer to Figure 10, Connect the supplied ac power adapter into the DC INPUT connector in back of the receiver. Insert the adapter's cable into the power cable retainer. (*suit of KRV-10*) Plug the adapter into a wall socket or other ac power source (use HD41N110 for 220VAC, 50Hz power, use HD41N110E for 120VAC 60Hz power). Push the power switch on the face of the receiver, the red POWER light on the receiver will glow.
2. Insert supplied BNC plug of antenna into the BNC Antenna terminal. That in the back of the receiver. And fully rotate clockwise, position the antennas at a 45 angle from vertical.
3. Connect the receiver's 1/4" PHONE JACK AUDIO OUTPUT connector to amplifier input, using a standard guitar cable.
4. Connect your guitar or bass to the transmitter input jack with a instrumen Adaptor and fully rotate.
5. Adjust the volume control on your guitar to desired level. To match wireles output to that of wired system, see Receiver Volume Adjust for the Guitarist.
6. Slide the recessed transmitter POWER/OFF switch to the POWER positio the indicator shines for a moment at that time, the receiver's DIVERSITY A/I lights will glow. (note: channel A or B will transfer automatically when transmitte moving from receiver for about 10 meters (about 30 ft).
7. When the performance is over, turn off the sound system and slide th transmitter's POWER/OFF switch to the OFF position to conserve battery powe

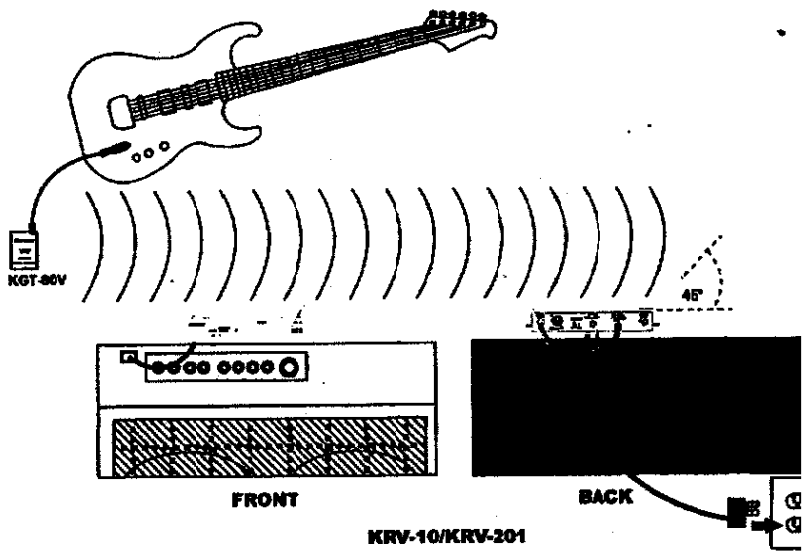

FIGURE 10

TRANSMITTER AUDIO GAIN ADJUSTMENT

The audio gain control on transmitter has been factory-at the mid-range position for best performance In most applications. This may be necessary for soft singers or talkers, or guitar or basses with low outputs.

•To Increase Gain: Rotate the transmitter gain control clockwise with the screwdriver to increase audio gain.

•To Reduce Gain: Rotate the transmitter gain control counterclockwise with the screwdriver to reduce audio gain.

To return audio gain to the factory setting, rotate the transmitter audio gain control to the mid position.

TIPS FOR ACHIEVING MAXIMUM PERFORMANCE

- Make sure you can always see a receiver antenna from the transmitter position.
- Keep the distance from transmitter to receiver antenna as short as possible.
- Point receiver antennas away from each other at a 45 angle from vertical.
- Avoid placing the receiver antennas near metal surfaces and obstruction.
- Monitor battery fuel gauge and replace battery as soon as red light is on.
- If stacking or rack mounting receivers In a multiple-system use situation,do not allow antennas to touch or cross.
- Perform a walk-through before performance or presentation .If dead spots are found , adjust location of receiver .If dead sports remain ,mark spots and avoid.

TROUBLESHOOTING

PROBLEM	INDICATOR STATUS	SOLUTION
No sound.	Red transmitter indicater is not flash	Slide transmitter POWER ON/OFF switch to ON position. Make sure battery is inserted properly ,observing battery ("+/_"). If battery is inserted propesly, replace with fresh battery
No sound.	Red transmitter indicater is flash	Slide transmitter MUTE/ON switch to ON position
No sound.	Red receiver POWER light off.	Make sure ac adapter is securely plugged into electrical outlet and into dc input connector. Make sure ac electrical outlet works and supplies proper voltage.
No sound.	Receiver DIVERSITY A/B lights glowing.	Turn up receiver volume control. Confirm that the output connections from the receiver to the external equipment are secure
No sound.	Receiver DIVERSITY A/B lights off. Transmitter and receiver POWER lights glowing	Confirm transmitter's and receiver'sfrequencies match. Move transmitter transmitter closer to receiver
Sound level differs from level of a cabled instrument.	Receiver DIVERSITY A/B lights glowing.	Adjust transmitter gain level to compessary. Adjust receiver volume as necessary.
Sound level differs with different guitars.	Receiver DIVERSITY A/B lights glowing.	Readjust transmitter gain level to compensate for differences in guitar outputs
Distortion level increases gradually	Receiver DIVERSITY A/B lights and transmitter LOW BATTERY light glowing	Replace transmitter battery
Bursts of noise or other audibleradio signals present.	DIVERSITY A/B lights on .	Identify potential sources of interference (other RF-sources) and turn off, remove or use a wireless system operating on a different frequency.
Momentary loss of sound as transmitter is moved around performing area.	Receiver DIVERDITY A/B lights off when sound is lost	Repositeon receiver and perform walk-through test again. If sevfm dropouts persist, mark "dead" spots and avoid them during performance

SYSTEM SPECIFICATIONS

RF Carrier Frequency Range: Approximately 170 to 260 MHZ (Availabl frequencies depend on applicable regulations In country where system is used

Operating Range: 150m(approximately 450ft)under typical conditions.

Audio Frequency Response: 50 to 15,000Hz,±3dB.

THD: <0.5%.

Mibile Stste Range:>100dB.

Operating Temperature Range

-29° to 74°C (-20° to 165°F)NOTE:Battery characteristics may limit thi range.

KST-53V HAND-HELD TRANSMITTER SPECIFICATIONS

Power Requirements	9V alkaling battery
Nominal Current Drain	LESS THAN 25mA
Modulation Type	FM
RF Output	MORE THAN 13dBm
Max Deviation	± 35KHz
Spurious Emission	MORE THAN 55dB
Dimensions	23.5CM X 5CM X 5CM

KLV-80 BODY-PACK TRANSMITTER SPECIFICATIONS

Power Requirements	9V alkaling battery
Nominal Current Drain	KESS THAN 25mA
Modulation Type	FM
RF Output	MORE THAN 13dBm
Max Devia tion	± 35KHz
Spurious Emission	MORE THAN 55dB
Dimensions	23.5CM X 5CM X 5CM

OPTIONAL ACCESSORIES

1/4" to 1/4" Cable (The Guitarst -VHF only).....(G - 05)
1/4" to Miniature Connector.....(WA302)
1.8 Meter (6 ft.) Receiver-Mixer Cable.....(WA401)