



# Linn AV Personal Handset User's Guide

# preface

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## General user instructions

1. Water and Moisture. Do not use the appliance near water, for example near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool and the like.

2. Heat. Site the appliance away from heat sources such as radiators, heaters, stoves, or other appliances (including amplifiers) that produce heat.

3. Cleaning. The product should be cleaned only as recommended by the manufacturer.

4. Objects and liquid entry. Take care not to let objects or liquids fall onto the product.

5. Damage requiring service. The product should be serviced by qualified personnel if :

- a. Objects or liquid have fallen into the product.
- b. The product has been exposed to rain.
- c. The product does not appear to operate normally or exhibits a marked change in operation.
- d. The product has been dropped or the enclosure damaged.

6. Servicing. Don't attempt to service the product beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

## Battery types and replacement

Four AAA or LR03 cells, or equivalent.

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# introduction

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## The Linn AV System

To get the most out of a film you have to do more than simply watch it: you have to experience it fully, exactly as its creators intended. That means images and sound must be married together perfectly, giving you the same emotional impact you would receive in the cinema itself. Without sound of the very highest quality, every film lacks an essential dimension – and so does your pleasure in viewing it.

In designing your Linn AV system, we have set out to create the ultimate experience of cinema and music in the home and every component has been carefully designed to give you exactly that. No-one knows more than Linn about designing music systems for the home and we have used that unique experience and know how to create an AV system which gives you the same accuracy and purity of sound, even when you are listening to special effects in an action movie.

## AV 5103 System Controller

The heart of the system is the AV 5103 System Controller. This controls your audio and video sources, to let you choose what you want to watch or listen to. It can control analogue signals, from a tape recorder or FM tuner, for example; digital signals, from a CD player or a LaserDisc player, and video sources, from a TV tuner, video recorder and LaserDisc player. It also decodes surround encoded materials, including AC-3, to give you a complete surround sound experience. With its informative two-line text display, and the option of on-screen graphics, the AV 5103 System Controller is both powerful and simple to use. Most operations involve just one key-press on the front panel or handset.

Despite the simplicity of its front panel, however, almost every aspect of the System Controller can be configured in exactly the way you want. You can define and control everything: the inputs you use for each of your sources, the name of those sources, the surround-sound decoding options and loudspeaker settings. The System Controller also provides a sophisticated range of audio and video recording options, allowing you to record several sources simultaneously without affecting what you are watching or hearing.



## AV 5101 Personal Handset

The power and flexibility of the Linn AV system is entirely under your control, from wherever you are in the room, with the AV 5101 Personal Handset. This uses a powerful infra-red signal to allow you to select any of the AV 5103 System Controller's functions with a few simple key presses.

Its uniquely contoured shape makes it extremely comfortable to hold, and the keys are large, and easy to read and use. It is also equally suitable for table-top use, if you prefer.

As well as controlling the Linn AV system, and any other Linn products you may own, the Personal Handset can also learn the commands for your other equipment, so that your whole system can be controlled with a single handset.



## AV 5105 Stereo Power Amplifier

The AV 5105 Stereo Power Amplifier is the ideal companion to the System Controller in your AV system. It has the power to cope with the most demanding cinema effects, while providing the purity and low distortion needed for the perfect reproduction of music.

Each AV 5105 Stereo Power Amplifier will drive two of the loudspeakers in your system, and for the best possible sound we recommend you divide the output of one AV 5105 Stereo Power Amplifier to drive the bass and treble sections of your centre speaker separately.



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## AV 5140 Floor-Standing Loudspeaker

The AV 5140 Floor-Standing Loudspeaker is the perfect choice for use as the front speakers in a surround sound installation. With film, TV, video, or music the outstanding bass performance of the AV 5140 Floor-Standing Loudspeakers, combined with their natural reproduction of voice and music, will provide you with a totally absorbing and breathtaking cinematic experience. Their unique stylish shape ensures that they enhance, rather than dominate, your home.



## AV 5120 Compact Loudspeaker

The centre loudspeaker is fundamental to a good AV system because it has the task of reproducing the most critical information for music and cinema sources. We therefore designed the AV 5120 Compact Loudspeaker without any compromises to give a superior full-range response, together with especially good bass handling.

As well as giving superb reproduction of music it reproduces speech with particular accuracy, making it ideal for use with film soundtracks. We also carefully matched it to the AV 5140 Floor-Standing Loudspeakers so that sounds which pan across and move between the speakers sound both accurate and highly dramatic. This gives you the most realistic possible impression when listening to film and video soundtracks.

The AV 5120 drive units are screened to ensure that there is no interference if you place it next to your television.



## AV 5110 Local Loudspeaker

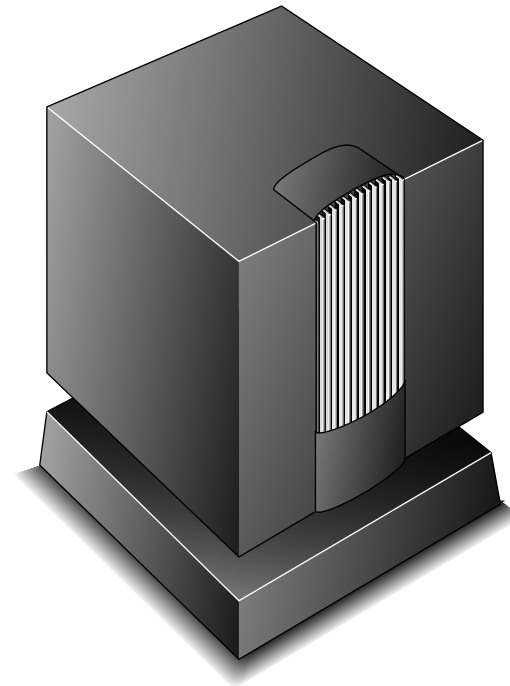
The rear loudspeakers in a surround system are important in creating a spacious sound for music and provide background noises and special effects in film soundtracks. These need to be capable of handling the full dynamic range for AC-3 but only limited range for ProLogic. The AV 5110 Local Loudspeakers were designed to be compact and stylish, so that they can be positioned easily in any room.

Despite their size they produce a deceptively full sound with excellent bass response. For even better performance, and especially if you are using AC-3, a recommended alternative is to use a pair of AV 5120 or AV 5140 Floor-Standing Loudspeakers as the rear surround speakers.



## AV 5150 Active Isobarik Bass Speaker

The AV 5150 Active Isobarik Bass Speaker extends the bass performance of the whole system to give you totally involving cinematic effects and enhance the impact of music. We designed the AV 5150 Active Isobarik Bass Speaker to reproduce bass sounds as faithfully as our full-range loudspeakers, with the result that its contribution to the overall sound is extremely natural and unobtrusive. Because low frequency sounds are not directional you can position the bass speaker anywhere convenient in the room.



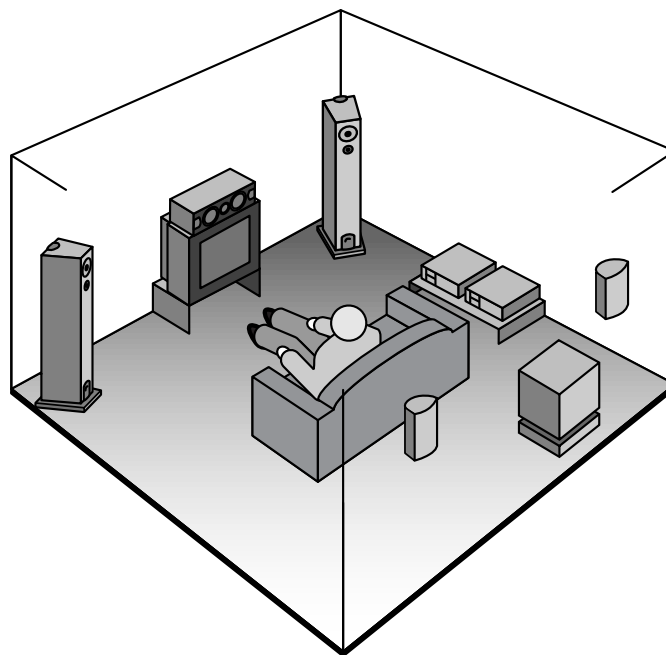


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## ...Making it real

The Linn AV system has been designed to give you the most exciting and satisfying experience of cinema it is possible to achieve in the home. Our aim is to bring you the complete film as its creators intended: with images and sound working together in the most memorable way. To achieve this demanding objective we have designed each of our components to give outstanding performance in their own right while ensuring that each of them work perfectly with each other.

The result is an integrated system that will give you the most rewarding experience you can achieve from watching a film, or listening to a music recording: bringing a new dimension to the way you experience cinema in the home.



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## About the AV 5105 Stereo Power Amplifier

The Linn AV 5105 Stereo Power Amplifier is intended for use in high performance audio and audio/video systems. It combines high output power, ruggedness, and ease of use with our passion for quality. It draws on years of experience of designing and making high quality audio power amplifiers.

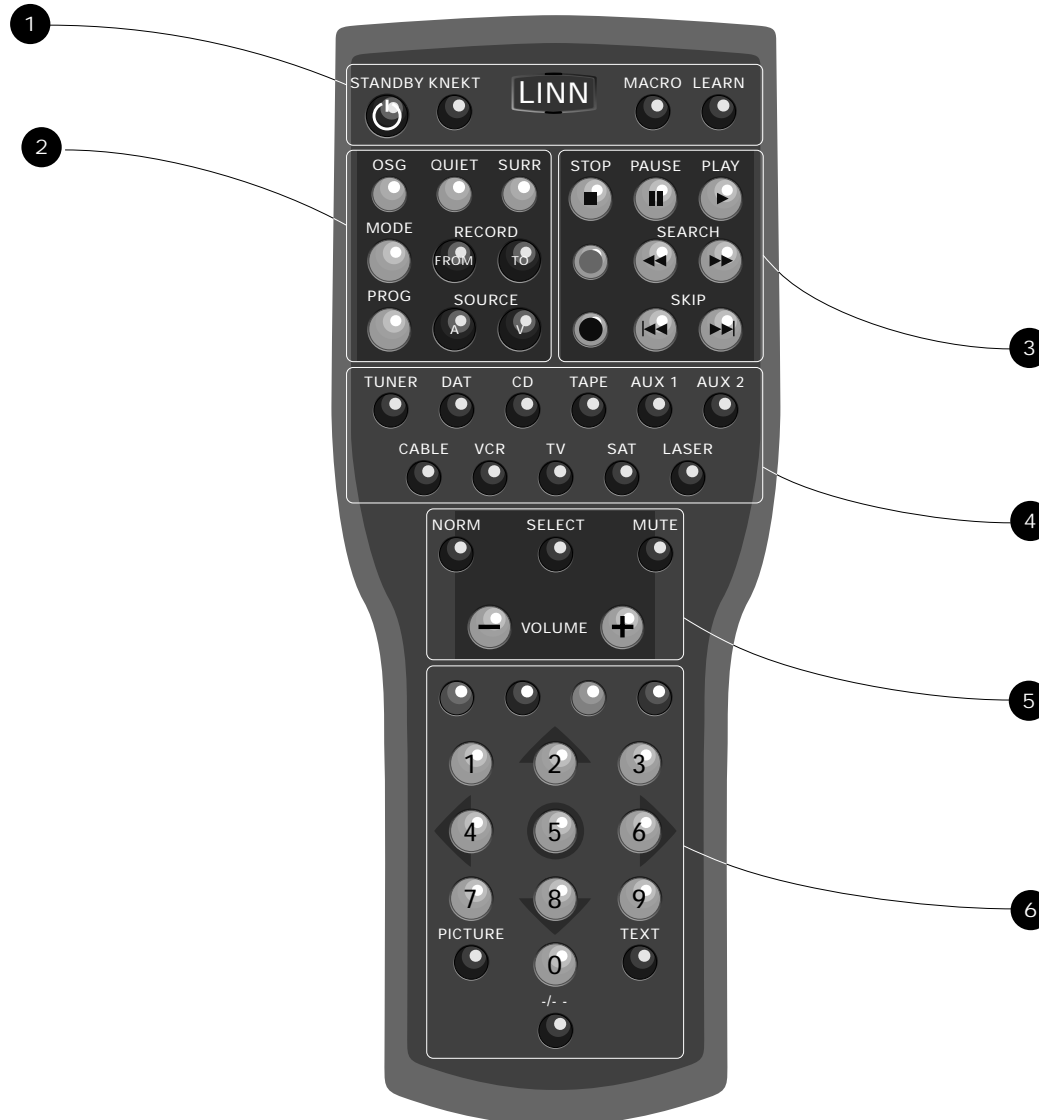
Inside the compact case are two completely independent electrically isolated channels with fully regulated power supplies giving 'dual mono' performance. The signal path is DC coupled and servo controlled for the lowest distortion, cleanest, least coloured sound. The output stage is highly derated for cool, reliable operation, and the protection circuitry protects extensively against accidents or abuse.

A signal sensing circuit detects the presence of audio above a very low level and turns on the main power supplies to the amplifier, bringing the power amplifier channel from a very low standby power consumption to full operation. It reverts to the standby condition a few minutes after the input signal disappears. This is particularly useful in multi-channel surround sound systems.

The AV 5105 accepts the Linn active crossover modules, automatically detecting their presence and switching them in circuit as soon as they are plugged in. This makes playback system upgrades easy.

# using the Personal Handset

The Linn AV 5101 Personal Handset puts you in control of your entire AV and hi-fi system from wherever you are sitting. This chapter explains the function of each of the keys on the Personal Handset, and shows how you can use them to control your equipment.



## Key layout

The following illustration shows the function of each of the keys on the Personal Handset.

For convenience the keys on the Personal Handset are divided into several logical groups, and each group of keys performs a distinct function, as described in the following sections.

1. Handset operation keys determine the operation of the whole handset, or instruct it to learn commands.
2. AV System functions perform special functions unique to the AV 51 System.
3. Programmable source control keys provide functions for controlling sources.
4. Audio/Video source select keys select one of the audio/video sources.
5. Volume and speaker balance keys allow you to adjust the volume and speaker balance. These can also be programmed for your TV.
6. Programmable numeric keys provide additional functions for controlling sources.

### Handset operation keys

These keys determine the operation of the whole handset, or instruct it to learn commands:

Key	What it does
STANDBY	Switches the System Controller or a source to standby.
KNEKT	Selects the source from the main system in a KNEKT Multi-Room system.
MACRO	Records a sequence of your commands, called a macro, so you can replay them with a single key press.
LEARN	Learns a command from another infra-red handset and assigns it to one of the Programmable handset keys.

### AV System functions

These keys perform special functions unique to the AV 51 System:

Key	What it does
OSG	Displays on-screen graphics information superimposed on the video image.
QUIET	Selects Midnight Movie mode, which reduces the volume of loud signals and increases the volume of quiet ones for late-night listening.
SURR	Allows you to select the surround sound processing mode using the - and + volume keys.
MODE	Not currently used.
RECORD FROM	Allows you to select the source to record from.
RECORD TO	Allows you to select the output to record to.
PROG	Allows you to select an audio+video source, and sets up the programmable keys for that source.
SOURCE A	Displays the current audio input source, and allows you to select a different audio input using the - and + VOLUME keys or by pressing one of the Audio/Video source select keys.
SOURCE V	Displays the current video input source, and allows you to select a different video input using the - and + VOLUME keys or by pressing one of the Audio/Video source keys.

For more information about these functions refer to the *AV 5103 System Controller Owner's Manual*.

## Programmable source control keys

These keys provide functions for controlling sources, including CD players, tape recorders, and FM tuners. Press one of the Audio/Video source select keys to specify which source you want to control.

The source control keys are initially set up to control Linn products. You can also program them for any of your other equipment using the Personal Handset LEARN function.

The keys have the following functions:

Key	What it does
STOP *	Stops the source.
PAUSE =	Pauses the source.
PLAY >	Plays the source.
RED •	Can be programmed to perform record or another function.
SEARCH - and ¼	Searches for a track on a CD player or station on an FM tuner.
BLACK •	Can be assigned to another function on a source.
SKIP " and '	Moves between tracks on a CD player or presets on an FM tuner.

## Audio/Video source select keys

Pressing PROG followed by one of the Audio/Video source select keys selects the corresponding audio+video source on the System Controller. Pressing PROG alone changes the function of the programmable keys to the appropriate function for that source.

Pressing one of the Audio/Video source select keys on its own changes the function of the programmable keys without selecting the source on the System Controller. This allows you to control one source while listening to another.

The Audio/Video source select keys are as follows:

Key	Used for
TUNER	FM tuner.
DAT	Digital audio tape recorder.
CD	CD player.
TAPE	Tape recorder.
AUX 1	Auxiliary source 1.
AUX 2	Auxiliary source 2.
CABLE	Cable television.
VCR	Video cassette recorder.
TV	Television.
SAT	Satellite television.
LASER	LaserDisc player.

### Volume and speaker balance keys

These keys allow you to change the volume, mute the sound, restore the normal settings, and adjust the individual and relative speaker output levels.

The volume and speaker balance keys are as follows:

Key	What it does
NORM	Restores the source to its normal volume and surround processing settings.
SELECT	Steps between the different speaker settings for the currently active surround mode. These include balance, rear level, centre, subwoofer, etc.
MUTE	Mutes the sound. Press MUTE again or one of the VOLUME keys to unmute it.
VOLUME - and +	Changes the volume, or the currently selected setting.

### Programmable numeric keys

These keys provide additional functions for controlling your audio and video sources. They can be programmed for the other equipment in your system using the LEARN function. These keys can also be used with Linn CD players and FM tuners to enter a track number, preset number, or station frequency.

Refer to the *Appendix*, page 26, for the default settings for each source.

## General use of the handset

Put the System Controller into or bring it out of standby mode like this

- Press the STANDBY key.

Put a source into or bring it out of standby mode like this

- Press the appropriate Audio/Video source select key, followed by the STANDBY key within 2 seconds.

For example to put your TV into standby mode, press the TV key followed by the STANDBY key.

Change the volume like this

The following volume and speaker balance keys can operate either the System Controller volume functions or the TV volume functions:

NORM, SELECT, MUTE, VOLUME-, and VOLUME+.

To change from the System Controller to TV control, or vice versa:

- Press the Audio/Video source select key corresponding to the source you want to listen to, followed by one of the above volume and speaker balance keys within 2 seconds.

For example, if the Personal Handset is currently controlling the TV volume functions and you want to increase the volume on the System Controller for the CD you are listening to:

- Press the CD key, followed by the VOLUME + key within 2 seconds.

The speaker and balance keys will now control the System Controller volume functions.

Select amplifier controls like this

The AV System function keys, Audio/Video source select keys, volume and speaker balance keys, STANDBY key, and KNEKT key can operate either the AV 5103 System Controller or another amplifier, if the Personal Handset has learnt its commands; see *Programming the AV Personal Handset*, page 19. To change from operating the AV 5103 to operating a learnt amplifier:

- Press the Audio/Video source select key for the learnt amplifier.

For example, if AUX2 was used to learn the amplifier's commands, press AUX2 to select the learnt amplifier's commands.

To change from operating a learnt amplifier to operating the AV 5103:

- Press the LEARN key.

The LEARN key will be illuminated.

- Press the MODE key.

The LEARN indicator will blink once.

- Press the numeric key (0–9) corresponding to your System Controller.

The LEARN indicator will blink once, and then switch off when you have released the numeric key.

For example, to select the AV 5103 System Controller's commands if it is configured as Amplifier 1 (see the *Linn AV System Controller User's Guide*):

- Press the LEARN key.

- Press the MODE key followed by numeric key 1.

## Recording macros

A very convenient and powerful feature built into the Personal Handset is the ability to record a sequence of your commands, and replay them with a single key press. For example, you could record the commands to select the television and display a particular teletext page as a single key. The sequence of commands is called a macro, and you can keep up to ten different macros for your most frequently-used operations. Some practical examples of using macros are given at the end of this section.

Record a macro like this

- Press the LEARN key to indicate that you want the Personal Handset to learn a macro.

The LEARN indicator will be illuminated.

- Press the MACRO key to learn a macro.

The MACRO indicator will also be illuminated.

- Press a numeric key to assign a number to the macro you want to learn.

For example, to assign a macro to key 5 press 5.

The LEARN indicator will flash slowly to show that the Personal Handset is ready to learn commands.

Any keys you now press will be recorded in the macro.

For example, you might press TEXT, 1, 2, 3 to select Teletext page 123. As you press each command the macro indicator will blink once.

- Finally save the macro you have learnt by pressing the LEARN key.

Both the LEARN and MACRO indicators will now turn off showing that the macro has been saved.

Each macro can remember up to ten commands. If you enter nine commands the LEARN and MACRO indicators will flash slowly to warn you that the macro is nearly full. When you enter a tenth command the macro will be saved automatically.

Replay a macro like this

- Press the MACRO key followed by the number of the macro, for example 5.

The MACRO indicator will flash rapidly as the commands are transmitted, and at the end of the sequence it will turn off.



## Examples of macros

### Playing a video at night

The following macro switches the System Controller on, selects Midnight Movie mode, selects the VCR source, and starts the video playing:

STANDBY, QUIET, PROG, VCR, PLAY.

### Displaying the National Lottery results on teletext

The following macro selects the TV source, chooses ITV, Teletext, and then page 123:

PROG, TV, 3, TEXT, 1, 2, 3.

### Interrupt a CD for the news

The following macro pauses the CD player, switches to the TV source, and selects BBC1:

CD, PAUSE, PROG, TV, 1.

### Resuming a CD

This macro might be used in conjunction with the previous one. It switches back to the CD source and starts the CD playing again:

PROG, CD, PLAY.

# using the AV 5101 with Linn equipment

The Linn AV Personal Handset provides a range of special functions for controlling the Linn AV 5103 System Controller, and for setting it up to suit the other equipment in your system. For full information about using the Personal Handset with the System Controller please refer to the *AV 5103 System Controller Owners Manual*.

The Linn AV Personal Handset also contains all the functions you need to control any other Linn equipment you have in your system, and it can be used in place of the handsets supplied with each product. This chapter gives information about using the Personal Handset to control other Linn products, including the Linn KNEKT Multi-Room system.

## Controlling Linn CD players

You can control all the major functions of the Linn KARIK or MIMIK CD players from the Personal Handset.

Select the CD player like this

● Press the CD Audio/Video source select key.

This specifies that the preprogrammed or learned CD commands will be transmitted.

Control the CD player like this

● Press one of the keys shown in the following table:

Press	To do this
STOP	Stop the CD player.
PAUSE	Pause the CD player.
PLAY	Play the CD, or skip to the next track if the CD is already playing.
SEARCH $\leftarrow$ , $\rightarrow$	Search backwards or forwards through the disk you are currently playing while listening to a fast version of the sound.
SKIP $\leftarrow$ , $\rightarrow$	Go to the previous or next track.

Select a track by number like this

- Press the corresponding digit on the Personal Handset.

To enter a track number greater than 9 press and hold down the key for the first digit until a dash appears on the CD player display, then press the key for the second digit.

A full list of the preprogrammed commands is given in the *Appendix*, page 26.

## Controlling Linn tuners

The Personal Handset lets you operate most of the functions of the Linn KREMLIN or KUDOS radio tuners.

Select the radio tuner like this

- Press the TUNER Audio/Video source select key on the Personal Handset.

This specifies that the preprogrammed or learned TUNER commands will be transmitted.

Control the radio tuner like this

- Press one of the keys shown in the table opposite:

Press	To do this
Search $\bar{\cdot}$ , $\frac{1}{4}$	Search downwards or upwards in frequency, respectively, and stop when a station is found.
Skip $\bar{\cdot}$ , $\bar{\cdot}$	Step between radio preset stations.

Enter a preset number directly like this

- Type the preset number, using the Programmable numeric keys.

A full list of the preprogrammed commands is given in the *Appendix*, page 26.

## Controlling Linn preamplifiers and amplifiers

You can control the Linn MAJIK control amplifier or WAKONDA and KAIRN preamplifiers using the Personal Handset, as described in the following sections.

Choose what you want to listen to like this

- Press the appropriate Audio source select key on the Personal Handset.

Change the volume like this

- Press the VOLUME - and + keys.
- Press MUTE to mute the sound, or restore the original volume.

## Using the AV 5101 Personal Handset with KNEKT

Every KNEKT system is uniquely configured to suit your requirements; please consult your KNEKT installer for detailed information about using the Personal Handset with your installation.

The following table shows the main keys used to control a KNEKT system:

Key	KNEKT function
KNEKT	Where
PROG	What
Audio/Video source select keys	Do
VOLUME - and +	Volume

# programming the AV Personal Handset

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In addition to providing all the functions necessary to control the AV 5103 System Controller and any other Linn equipment in your system, the Personal Handset can learn commands from the infra-red handsets for other equipment you may own. This allows you to program your Linn Personal Handset so that it is the only handset you need in your system, allowing you to control all your hi-fi, audio, and video components from a single convenient keypad.

The Personal Handset provides two programmable groups of keys: the Programmable source control keys and the Programmable numeric keys, as well as the STANDBY key. An independent set of functions can be assigned to these keys for each of your audio and video sources, thus allowing you to control up to 11 different sources attached to your system.

In addition there is also a special case for a TV source, which can be learnt by the Personal Handset's volume and balance keys.

When you select an audio or video source the functions of the programmable keys automatically change to the functions you have learnt for that source.

The following procedure allows the AV5101 Personal Handset to be programmed to control other equipment such as VCRs and LaserDisc players.

## Erasing previously learnt commands

Prior to learning a new set of commands from another infra-red handset as a new source (TUNER, DAT, CD, TAPE, AUX1, AUX2, CABLE, VCR, TV, SAT, or LASER) on the AV 5101 Personal Handset, previously learnt commands for that source must be erased from the AV 5101's memory as follows:

● Press the LEARN key.

The LEARN indicator will illuminate.

● Press and hold the Audio/Video source select key for the source you want to erase, and while still holding the Audio/Video source select key, press and hold the LEARN key.

When the Audio/Video source select key is pressed, the LEARN indicator blinks once. After the Audio/Video source select key and the LEARN key have been held for 5 seconds, the memory for the selected source will be erased and the LEARN indicator turns off.

For example to erase previously learnt VCR commands, after pressing the LEARN key, press and hold the VCR key, and while holding the VCR key, press and hold the LEARN key for 5 seconds.

## Alignment of handsets

Before attempting to learn new commands align the AV 5101 Personal Handset and the infra-red handset as described in Diagram 1.



## Learning commands from an infra-red handset

The AV 5101 can learn two distinct sets of commands these being either for a source (TV, CD, VCR, etc) or an amplifier. In order to learn a source follow steps (A) and (C) or to learn an amplifier steps (B) and (C).

### (A) Learning a Source

- Press the LEARN key.

The LEARN indicator will illuminate.

- Press the Audio/Video source select key to identify which source you are programming.

For example, if you are programming the keys to control a VCR press the VCR source key.

The LEARN indicator will blink once to confirm this source has been selected.

The keys that can be learnt in this case on the AV 5101 Personal Handset consist of the groups (3) programmable source control keys, (6) programmable numeric keys as well as the STANDBY key. In addition there is also the special case of a TV source which can also learn onto group (5) volume and balance.

Now proceed to (C) LEARNING KEYS.

### (B) Learning an amplifier

- Press the LEARN key.

The LEARN indicator will illuminate.

- Press the MODE key.

The LEARN indicator will blink once.

- Press the source key you wish to learn the new amplifier commands under.

The LEARN indicator will blink once.

The keys that can be learnt in this case on the AV 5101 Personal Handset consist of groups (2) AV System functions, (4) AV source keys and (5) volume and balance.

Now proceed to (C) LEARNING KEYS.

### (C) Learning keys

- Press the programmable key you want to program on the Personal Handset.

For example to program the PLAY key press PLAY.

The LEARN indicator will flash slowly to show that the Personal Handset is ready to receive a function from the other infra-red handset.

- Press and hold the key you want to learn on the infra-red handset.

For example, if you are programming the Play function press and hold the Play key on the infra-red handset. The LEARN indicator will flash rapidly on the Personal Handset indicating that it is receiving the incoming infra-red signal. Continue to hold the key until:

- The LEARN indicator begins to flash slowly. This indicates that the key has not yet been programmed successfully, and you should try again.
  - The LEARN indicator turns on continuously. This indicates the key has been programmed successfully and the Personal Handset is now ready to learn another key for the source you have selected.
- Repeat the two steps described above for all the other keys you want to program onto the AV 5101 Personal Handset for this source.

## Leaving the Learn Process

In order to exit the Learn Process after having successfully learnt key functions from another handset.

- Press the LEARN key.

The LEARN indicator will turn off to show that the Personal Handset is now back in normal mode. In order to try out the commands learnt simply press the appropriate source key – in our example VCR and then the command as normal eg PLAY.

# maintenance

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This chapter gives information about cleaning your Personal Handset, and replacing the batteries.

## Cleaning the Personal Handset

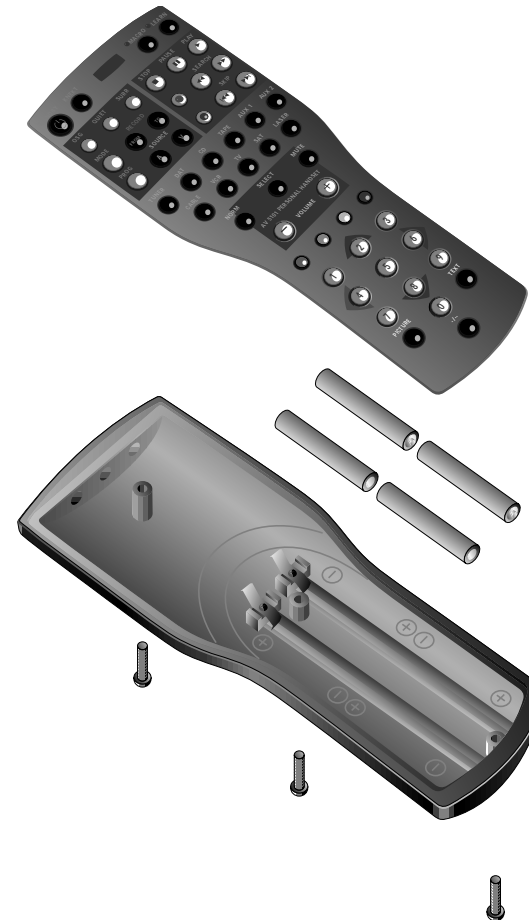
Clean the Personal Handset like this

- Use a length of sellotape or masking tape to remove dust, hairs, etc. The particles will stick to the tape, leaving the handset clean.

## Replacing the batteries

Open the Personal Handset like this

- Remove the three screws on the back of the handset, using a small Phillips screwdriver.
- With the handset face-down, tap gently in your hand to free the front panel from the case.



Replace the batteries like this

- Remove the old batteries and replace with four AAA or LR03 type batteries, checking the polarity carefully.

Note: Do not touch the exposed contacts on the handset panel as this may damage the handset with static electricity.



Re-assemble the handset like this

- Replace the panel in the handset case, locating the three LEDs in the corresponding holes in the case first.



- If necessary, press the edge of the rubber membrane into the case.

- Refit the three screws and tighten them gently.

Note: Do not overtighten the screws.

# appendix

## AUX1 – Audio stack record player

Handset key	Function
STANDBY	N/A
STOP *	Stop
PAUSE =	Pause
PLAY >	Play
RECORD •	N/A
SEARCH -	N/A
SEARCH ¼	ScanForward
MULTI	Scroll
SKIP "	Preset -
SKIP '	Preset +
Red	Open/Close
Green	Repeat Cont
Yellow	Stereo/Mono
Blue	N/A
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	N/A
PICTURE	N/A
TEXT	N/A

## AUX2 – Photo CD

Handset key	Function
STANDBY	N/A
STOP *	Stop
PAUSE =	Pause
PLAY >	Play
RECORD •	N/A
SEARCH -	Search-
SEARCH ¼	Search+
MULTI	N/A
SKIP "	Select Previous
SKIP '	Select Next
Red	N/A
Green	Total Shuffle Play
Yellow	N/A
Blue	N/A
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	N/A
PICTURE	N/A
TEXT	N/A

## AV 5103 System Controller

Handset key	Function
STANDBY	Standby
KNEKT	Knekt
OSG	OSG
QUIET	Quiet
SURR	Surround
MODE	Program
FROM	Record from
TO	Record to
PROG	A/V Source
A	Audio Source
V	Video Source
TUNER	Tuner
DAT	DAT
CD	CD
TAPE	Tape
AUX 1	Aux1
AUX 2	Aux2
CABLE	Cable
VCR	VCR
TV	TV
SAT	SAT
LASER	Laser
NORM	Normalise
SELECT	Select
MUTE	Mute
VOLUME +	Volume +
VOLUME -	Volume-

## CD - CD player

Handset key	Function
STANDBY	N/A
STOP *	Stop
PAUSE =	Pause
PLAY >	Play
RECORD •	N/A
SEARCH -	Search -
SEARCH ¼	Search ¼
MULTI	Scroll Display
SKIP "	Previous
SKIP '	Next
Red	Open/Close
Green	Repeat Cont
Yellow	Scan Forward
Blue	Shuffle
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	N/A
PICTURE	N/A
TEXT	N/A

## LASER – LaserDisc player

Handset key	Function
STANDBY	N/A
STOP *	Stop
PAUSE =	Pause
PLAY >	Play
RECORD •	N/A
SEARCH -	Search Reverse
SEARCH ¼	Search Forward
MULTI	Select Next Option
SKIP "	Increment Reverse
SKIP '	Increment Forward
Red	Open/Close
Green	Repeat Cont
Yellow	Increase Speed
Blue	Decrease Speed
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	N/A
PICTURE	Select TV/Text
TEXT	Select TV/Text

## CABLE/SAT – Cable/satellite receivers

Handset key	Function
STANDBY	Standby
STOP *	N/A
PAUSE =	N/A
PLAY >	N/A
RECORD •	N/A
SEARCH -	N/A
SEARCH ¼	N/A
MULTI	Scroll
SKIP "	CHAN/PROG -
SKIP '	CHAN/PROG +
Red	Sel. Sound 1/2
Green	Sound+Vision/Sound
Yellow	Display User Info
Blue	Parental Access
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	1/2/3 Digit Entry
PICTURE	Select TV/Text
TEXT	TV+Text/ Subt.



## TAPE/DAT – Tape/DAT recorders

Handset key	Function
STANDBY	N/A
STOP *	Stop
PAUSE =	Pause
PLAY >	Play
RECORD •	Record
SEARCH -	Rewind
SEARCH ¼	Wind
MULTI	Scroll Display
SKIP "	Previous
SKIP '	Next
Red	Eject
Green	Repeat Cont
Yellow	MechanismB
Blue	MechanismA
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	N/A
PICTURE	N/A
TEXT	N/A

## TUNER – Radio tuner

Handset key	Function
STANDBY	N/A
STOP *	Preset
PAUSE =	Scan
PLAY >	Tune
RECORD •	N/A
SEARCH -	Search Tune -
SEARCH ¼	Search Tune +
MULTI	Mono
SKIP "	-
SKIP '	+
Red	Band
Green	Signal
Yellow	Store
Blue	Stereo/Mono
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	1/2/3 Digit Entry
PICTURE	Preset (-)
TEXT	Preset (+)

## TV – TV receiver

Handset key	Function
STANDBY	N/A
STOP *	Stop
PAUSE =	Pause
PLAY >	Play
RECORD •	Record
SEARCH -	Last Program/Channel
SEARCH ¼	Search Up
MULTI	Scroll
SKIP "	CHAN/PROG -
SKIP '	CHAN/PROG +
Red	Fast Text
Green	Fast Text
Yellow	Fast Text
Blue	Fast Text
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	1/2/3 Digit Entry
PICTURE	Select TV/Text
TEXT	Select TV/Text

## VCR – Video recorder

Handset key	Function
STANDBY	N/A
STOP *	Stop
PAUSE =	Pause
PLAY >	Play
RECORD •	Record
SEARCH -	Search Reverse
SEARCH ¼	Search Forward
MULTI	Short/Long Play
SKIP "	Step Decrement
SKIP '	Step Increment
Red	Eject
Green	N/A
Yellow	Display User Info
Blue	Child Lock
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-/--	1/2/3 Digit Entry
PICTURE	Select TV/Text
TEXT	Select TV/Text

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