

H i - F i P e r s o n a l H a n d s e t

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I n t r o d u c t i o n

The Linn Hi-Fi Personal Handset is a unique unit that brings control of virtually all your audio and video equipment to a single convenient hand-held unit.

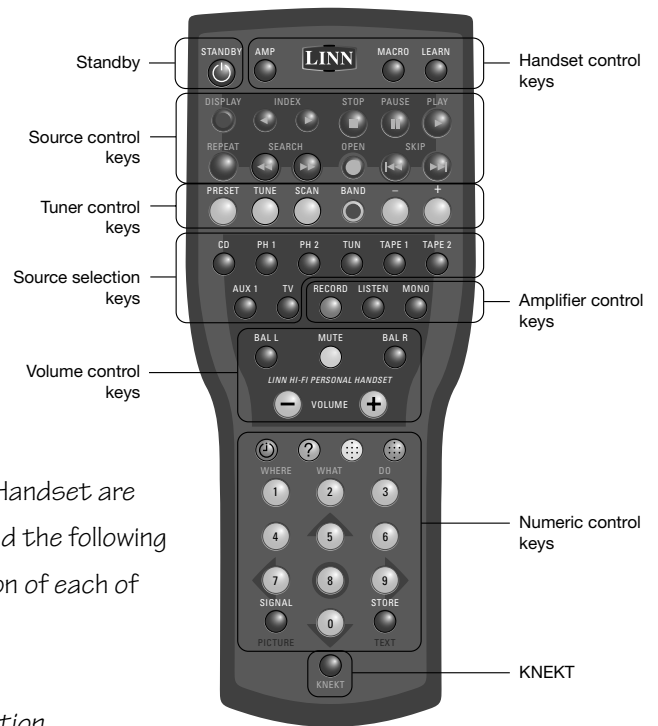
Its uniquely contoured shape makes it extremely comfortable to hold, and the keys are large and easy to read and use. It is also equally suitable for table-top use, if you prefer.

The handset provides pre-programmed keys to give you complete control over the other Linn products in your system, including CD players, tuners, and amplifiers. In addition, for total flexibility, the pre-programmed commands can be replaced by learning the commands from other infra-red remote control handsets. This allows you to use the Hi-Fi Personal Handset to control your entire system, including equipment from other manufacturers.

Finally the Hi-Fi Personal Handset can be programmed to learn a sequence of key presses called a macro, to provide convenient short cuts for operations you frequently want to perform.

Key layout

The keys on the Hi-Fi Personal Handset are arranged into logical groups, and the following illustration explains the function of each of these groups:



<i>Group</i>	<i>Description</i>
Standby	Switches the amplifier or the selected source to standby.
Source control keys	Operates the selected source.
Tuner control keys	Operates the tuner.
Source selection keys	Selects a source, and configures the source and numeric control keys to operate that source.
Volume control keys	Controls the amplifier or TV volume.
Handset control keys	Configures the Hi-Fi Personal Handset to operate your system.
Amplifier control keys	Operates the amplifier.
Numeric control keys	Controls the selected source.
KNEKT	Selects the KNEKT control keys, for use with a KNEKT multi-room system.

Controlling sources

This chapter explains how to use the Hi-Fi Personal Handset to select one of your audio sources, and then operate the source you have selected.

The Hi-Fi Personal Handset can control up to 8 different audio sources using the keys labelled:

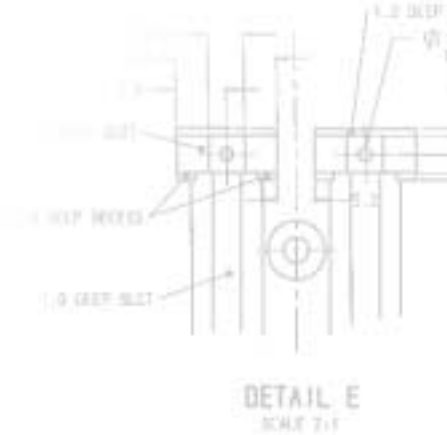
CD, PH 1, PH 2, TUN, TAPE 1, TAPE 2, AUX 1, and TV.

Initially these keys are programmed to control Linn products, and a range of products from other manufacturers; refer to *Controlling other equipment*, page 26, for details of the most important products supported.

If the products in your system are not on this list you can easily program the Hi-Fi Personal Handset with the commands from your other infra-red remote control handsets; see *Programming the Hi-Fi Personal Handset*, page 14.

Selecting a source

Pressing one of the source selection keys does two things. First, it configures the source control keys and numeric control keys to operate the source you have selected. Then, after a short delay, it instructs your amplifier to select the input associated with that source.



To select a source

- Press and hold the source selection key for the source you want to select until the **MACRO** indicator flashes.

For example, if you want to select the CD source:

- Press and hold the **CD** source selection key.

This will configure the source control keys to control the CD player, and then select the CD input on your amplifier.

To configure the source control keys without selecting a source

- Briefly press the source selection key for the source you want to control, releasing it before the **MACRO** indicator starts to flash.

For example, if you want to control the CD player without selecting the CD input on the amplifier:

- Briefly press the **CD** source selection key.

This will allow you to eject a CD from the CD player while listening to a tuner, without selecting the CD input on your amplifier.

Selecting the tuner

The tuner source is different from the other sources, and has a dedicated set of tuner control keys.

To select the tuner source

- Press and hold the **TUN** source selection key until the **MACRO** indicator starts to flash.

This will select the tuner input on the amplifier, and configure the tuner control keys and the numeric control keys to operate the tuner.

To operate the tuner without selecting the tuner source

- Briefly press the **TUN** source selection key, or press one of the tuner control keys.

The numeric control keys will automatically be configured to operate the tuner.

Operating a source

To operate the source you have selected

- Press the source control key for the function you want to perform.

For example, if CD is the selected source and you want to pause the CD:

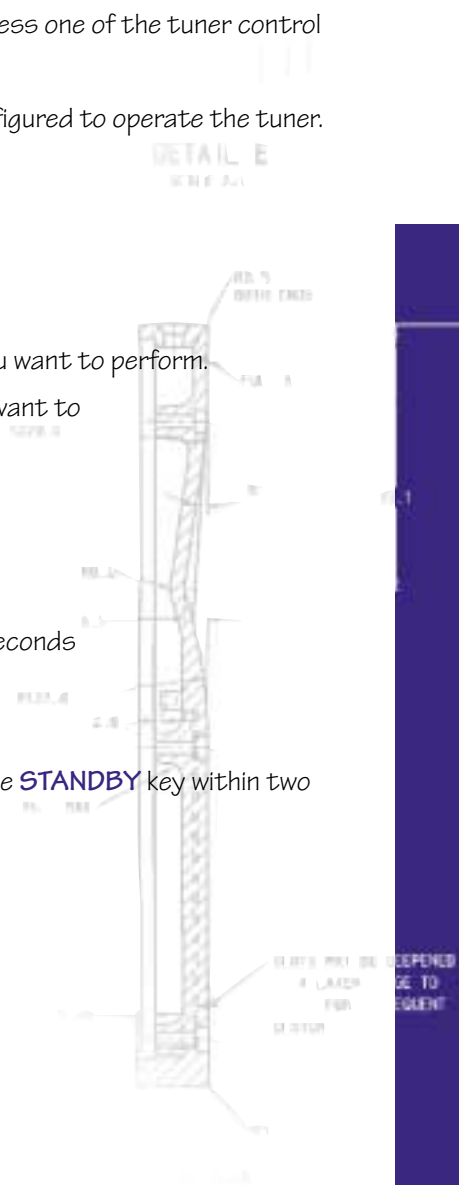
- Press the **PAUSE** source control key.

To switch a source to standby

- Press the source selection key, and within two seconds press the **STANDBY** key.

For example, to switch the TV to standby:

- Press the **TV** source selection key, followed by the **STANDBY** key within two seconds.



Controlling the amplifier or preamplifier

This chapter explains how to use the Hi-Fi Personal Handset to control your Linn preamplifier, allowing you to select sources, change the volume, and switch it to standby. It also explains how you can configure the Hi-Fi Personal Handset to control a second amplifier by learning the commands from another infra-red remote control handset.

Selecting the amplifier

The **AMP** handset control key allows you to select which amplifier the amplifier control keys will operate.

To select the amplifier

- Press the **AMP** handset control key to switch between amplifiers.

The **MACRO** indicator will flash once to indicate that the Linn amplifier commands have been selected, or twice to indicate that the program commands for the second amplifier have been selected.

Operating the amplifier

To operate the selected amplifier

- Press one of the volume control keys or amplifier control keys to operate the selected amplifier.

For example, to send the listen command:

- Press the **LISTEN** amplifier control key.

To switch the amplifier to standby

- Press the **STANDBY** key.

Controlling volume

The volume control keys normally control the amplifier volume, irrespective of which source you have selected.

Alternatively, you can program the Hi-Fi Personal Handset so that for particular sources the volume control keys operate the TV volume.

For example, if you normally listen to the VCR through your TV rather than through your amplifier, you can program the source used to learn VCR commands so that the volume keys operate the TV volume when that source is selected.

To change the volume

- Press the **VOLUME +** and - keys.

To mute the volume

- Press the **MUTE** key.

To change the balance

- Press the **BAL L** or **BAL R** keys.

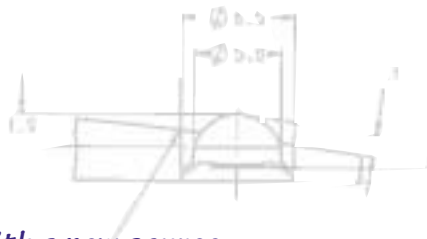
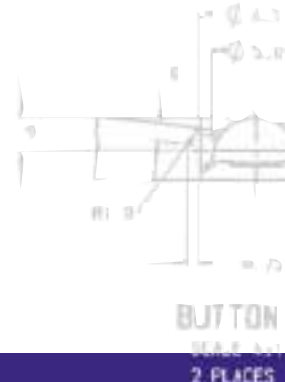
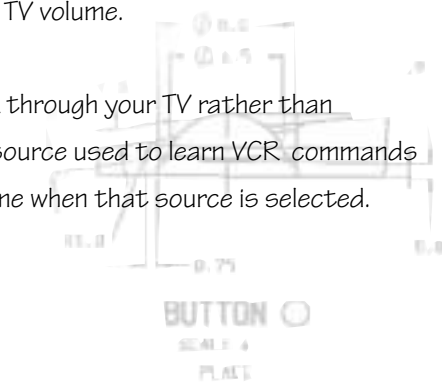
To associate the volume control keys with a new source

- Press the source selection key for the source you want to change.
- Within two seconds press the **VOLUME +** and - keys together.

Each time you do this the volume association of the source will be changed between amplifier volume and TV volume.

For example, if you are using the **TAPE 2** key to select your VCR, and you want the volume keys to control the TV volume when the VCR is selected:

- Press **TAPE 2**, followed by **VOLUME +** and - keys together.



Using macros

This chapter describes the Hi-Fi Personal Handset's macro function, a very convenient and powerful feature which allows you to record a sequence of key presses, and then replay the sequence at any time using a single key press.

Each sequence of key presses is called a macro, and you can keep up to 10 different macros for your most frequently used operations.

For example, you could record a news macro to pause the CD player and then select channel 1 on the TV.

Recording a macro

You can record up to 10 different macros, one for each of the numeric control keys 0 to 9. Each macro can record up to 10 key presses.

To record a macro

- Press the **LEARN** handset control key.

The **LEARN** indicator will be illuminated to show that the Hi-Fi Personal Handset is ready to learn a macro.

- Press the **MACRO** handset control key.

The **MACRO** indicator will be illuminated to show that the Hi-Fi Personal Handset is ready to record a macro.

- Press one of the numeric control keys 0 to 9 to identify the macro.

The macro will be assigned to the key you press.

The **LEARN** indicator will flash slowly to show that the Hi-Fi Personal Handset is ready to record key presses in the macro.

Each command you record can be one of the following:

<i>To record this</i>	<i>Press this</i>
A single key press	Press the key for less than one second.
An extended key press command	Press the key for more than one second.
A one second delay	Press the MACRO handset control key.

The **MACRO** indicator will flash once for each command you record.

Use an extended key press command if you want to record a source selection key press that also selects the source on your amplifier.

Record a delay if the equipment you are controlling needs a delay before receiving the next command. For example, after sending a command to bring a VCR out of standby you may need a short delay before sending the **PLAY** command.

Each macro can record up to 10 commands. When you have entered 9 commands both the **MACRO** and **LEARN** indicators will flash slowly to warn you that the macro is nearly full. If you enter a tenth command the macro is automatically saved.

To save the macro

When you have finished entering the macro:

- Press the **LEARN** handset control key.

Both the **MACRO** and **LEARN** indicators will turn off to show that the macro has been saved.

NO YELLOW INDICATOR
NO RED INDICATOR



Replaying a macro

To replay a macro

- Press the **MACRO** handset control key followed by the numeric control key **0** to **9** corresponding to the macro you want to replay.

The **MACRO** indicator will flash rapidly as the commands recorded in the macro are transmitted, and then turn off at the end of the sequence.

Examples of macros

The following examples show typical sequences of commands for operating typical equipment. Note that the precise sequences of key presses you need for your own equipment may be different.

To interrupt a CD for the news

To interrupt the CD and select TV channel 1:

- Press **CD**, **PAUSE**, **TV** (held for 1 second), **1**.

To resume playing the CD after the news:

- Press **CD** (held for 1 second), **PLAY**.

To select a favourite track on the CD player

To select track 12 on the KARIK CD player:

- Press **CD** (held for one second), **1** (held for 1 second), **2**.

To turn on the teletext subtitles on the TV

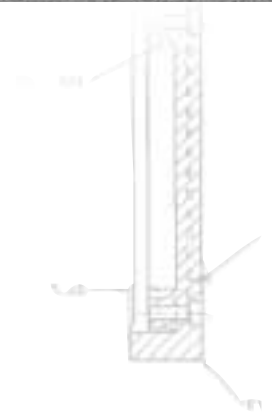
To select page 888 of teletext on channel 3 of the TV:

- Press **TV** (held for 1 second), **3**, **TEXT**, **MACRO** (delay before next command), **8**, **8**, **8**.

Controlling the KNEKT system

This chapter describes how to use the Hi-Fi Personal Handset to control a Linn KNEKT multi-room system.

These sections give general information about using the Hi-Fi Personal Handset with a KNEKT system. As each KNEKT multi-room system is specifically configured to suit your requirements please consult your installer, and the *KNEKT Owners Manual*, for detailed information about using the handset with your particular installation.



Selecting the KNEKT system

This section describes the keys that are used to control the KNEKT system.

To select the KNEKT control keys

- Press the **KNEKT** key.

The group of seven KNEKT control keys will now be selected:



To restore normal operation of the numeric control keys

- Select a source using one of the source selection keys, or press one of the source control keys or tuner control keys.

See *Controlling sources*, page 4.

Controlling sources

To select where the source is you want to listen to

- Press the **WHERE** KNEKT control key.

Each time the key is pressed the RCU display will switch between the name of your main system and the name of the local room you are in.



To select what you want to listen to

- Press the **WHAT** KNEKT control key.



Each time you press the key the RCU display will step through the available sources.

To select what you want the source to do

- Press the **DO** KNEKT control key.

Each time you press the key the RCU display will step through the available functions for the source you selected.

To perform the selected DO function

- Press the yellow  key to operate the *left* function. Press the blue  key to operate the *right* function.

The function of each key will be shown by the two right-hand symbols on the RCU display.

Selecting other functions

To display the time or date

- Press the  KNEKT control key.

Each time you press the key the RCU display will step through the available time and date formats.

To get help on an RCU function

- Press the  KNEKT control key.

The RCU display will show an appropriate help message.

Programming the Hi-Fi Personal Handset

This chapter explains how to program the Hi-Fi Personal Handset to learn the commands from your other infra-red handsets, so that you can use it to control all your other equipment.

The Hi-Fi Personal Handset can learn commands from up to nine other infra-red handsets, and each set of commands is stored as one of the eight audio sources, selected using the source selection keys labelled:

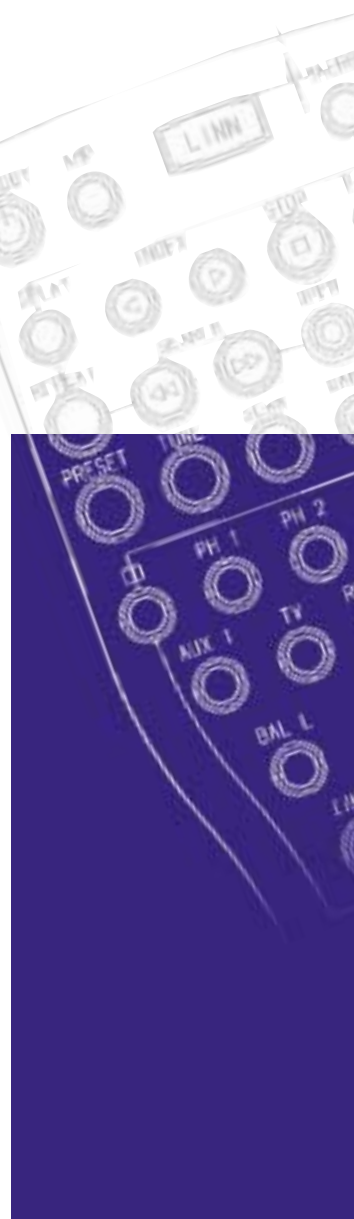
CD, PH 1, PH 2, TUN, TAPE 1, TAPE 2, AUX 1, and TV.

In addition, the commands for a preamplifier can be recorded and stored using the **AMP** key.

The following table shows the keys that can be learnt for each source:

<i>Source</i>	<i>Commands</i>
TUN	Tuner control keys, numeric control keys, and STANDBY key.
TV	Source control keys, numeric control keys, volume control keys, and STANDBY key.
CD, PH 1, PH 2, TAPE 1, TAPE 2, and AUX 1	Source control keys, numeric control keys, and STANDBY key.
AMP	Amplifier control keys, source selection keys, volume control keys, and STANDBY key.

Refer to the section *Key layout*, page 3, for an explanation of each set of keys.



Programming the handset

Programming the Hi-Fi Personal Handset requires the following steps:

Clear the source ready for new commands

This first step involves choosing a source with an appropriate name, and clearing any previous commands.

Position the two handsets correctly

The next step is to position the handsets correctly, so that the Hi-Fi Personal Handset can read the beam from the other handset.

Learn the commands for each key

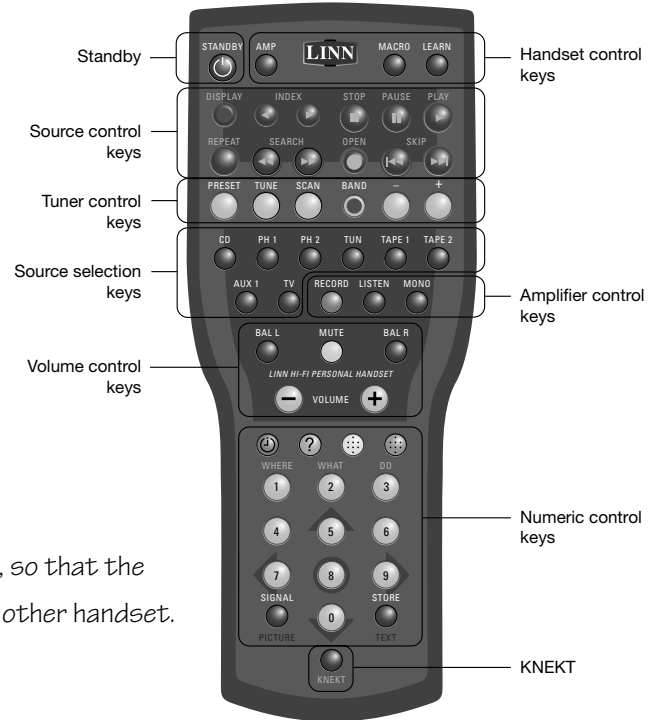
The first time you learn a command from a different handset the Hi-Fi Personal Handset calibrates itself for the new handset. This means that learning the first key will take at least three attempts, while the Hi-Fi Personal Handset learns the characteristics of the other handset.

Once you have learnt at least one key the Hi-Fi Personal Handset remembers the other handset's characteristics, and subsequent keys are learnt immediately, even if you are adding further keys at a later date.

Put the other handset away

Finally, you can put the other handset away and use the Hi-Fi Personal Handset to control your source instead.

These steps are describes in greater detail in the following sections.



Clearing the source

Before learning any commands you need to select the source you want to use. You can learn source control functions using the **CD**, **PH 1**, **PH 2**, **TUN**, **TAPE 1**, **TAPE 2**, **AUX 1**, or **TV** source selection keys. You can learn amplifier functions using the **AMP** key.

To select a source

- Choose an appropriate source selection key for the commands you are going to learn.

For example, if you are getting ready to learn the **PLAY**, **PAUSE**, and **STOP** commands from your tape recorder's handset, an appropriate choice would be the **TAPE 1** source.

To clear previously programmed commands

- Press the **LEARN** key.

The **LEARN** indicator will turn on to show that the Hi-Fi Personal Handset is ready to be programmed.

- Press and hold the source selection key for the source you want to clear.

For example, if you want to erase the **TAPE 1** source:

- Press and hold the **TAPE 1** key.

The **LEARN** indicator will blink once to show that the Hi-Fi Personal Handset has selected the source.

- While still holding the source selection key, press and hold the **LEARN** handset control key.

After 5 seconds the **LEARN** indicator will switch off to show that the commands for the selected source have been cleared.



Positioning the two handsets

To allow the Hi-Fi Personal Handset to learn commands from your other handset, both handsets have to be correctly positioned.

The infra-red receiver LED on the Hi-Fi Personal Handset must be aligned with the infra-red transmitter LED on your other handset.

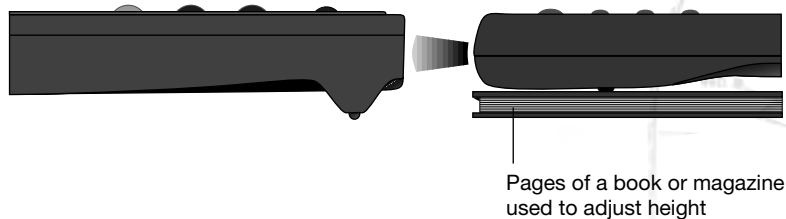


If you can see the infra-red transmitter LED on your other handset, you will be able to see when the handsets are correctly positioned after you complete the vertical and horizontal alignment steps below.

If the infra-red transmitter LED cannot be seen because it is behind an infra-red window, you can assume that it is somewhere along the centre line of the window for the vertical alignment step. The **LEARN** indicator will help you to find the exact position during the horizontal alignment step.

To align the handsets vertically

- Place the two handsets on a flat surface, approximately a finger-width apart.
- Use the pages of a book or magazine to adjust the height of one handset until the infra-red transmitter is aligned with infra-red receiver.



To align the handsets horizontally

- Press the **LEARN** key to turn on the **LEARN** indicator.

Do not press any other keys on the Hi-Fi Personal Handset at this stage.

- Press and hold any key on your other handset to transmit a command.

The **LEARN** indicator will flash rapidly when the Hi-Fi Personal Handset receives the command, and will turn on again when no command is received.

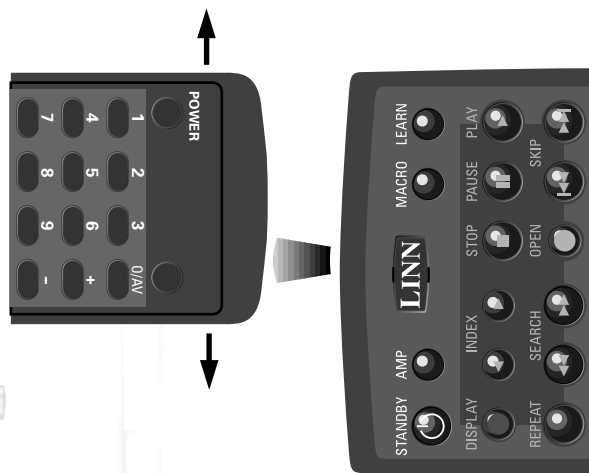
- Move the other handset from side-to-side while transmitting a command. The red LED will flash as the Hi-Fi Personal Handset receives a command.

Note the extreme positions when the Hi-Fi Personal Handset stops receiving the command, and the red LED stays permanently lit.

- Position the handset halfway between these two extreme positions for the best signal.



Most infra-red remote control handsets continually transmit commands while a key is pressed. However, some keys will only transmit the command once and then stop, even if you are still pressing the key. If you cannot find a key that continually transmits commands, you will have to repeatedly press and release the key on your other handset to transmit a series of commands.



Learning the commands for each key

To select the source you want to use

The **LEARN** indicator should still be on from positioning the handsets to show that the Hi-Fi Personal Handset is ready to learn.

- Press the source selection key for the source you want to use.

For example, if you want to use the **TAPE 1** source selection key:

- Press the **TAPE 1** key.

The **LEARN** indicator will blink once to show that the Hi-Fi Personal Handset has selected the source.

To learn a key

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

For example, to program the **PLAY** key:

- Press the **PLAY** key.

The **LEARN** indicator will flash slowly to show that the Hi-Fi Personal Handset is ready to receive a command from your other handset.

- On the other handset press and hold down the key you want to learn.


For example, to learn the play function:

- Press and hold down the play key.

The **LEARN** indicator will flash rapidly to show that the Hi-Fi Personal Handset is receiving a command from your other handset.

Continue to hold down the key on your other handset until the **LEARN** indicator responds in one of the following ways:

Action	What it means
The LEARN indicator stops flashing and turns on continuously.	The key has been programmed successfully. You can proceed to learn another key.
The LEARN indicator flashes slowly again.	The key has not been learnt. Release and then press the same key on the other handset to try again.



It is normal for some keys to take 3 or more attempts to learn. If the key you are programming does not learn the command from your other handset after 8 attempts, see Resolving learning problems opposite.

To stop learning keys

- Press the **LEARN** handset control key.

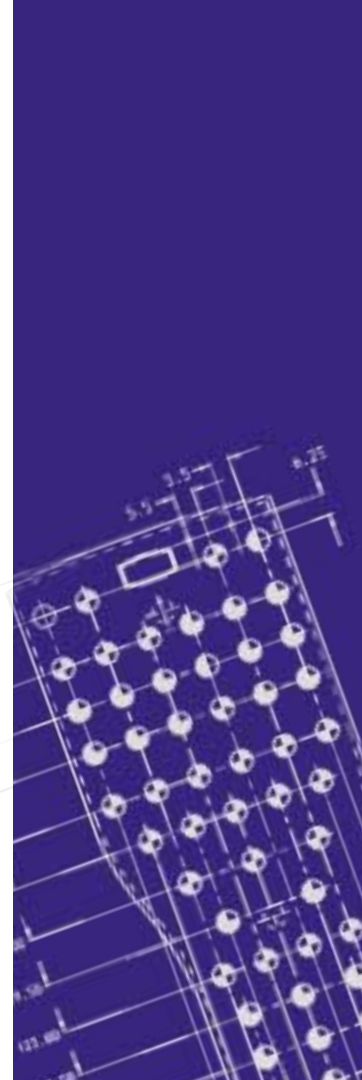
The **LEARN** indicator will turn off to show that the Hi-Fi Personal Handset is ready for normal use.

Resolving learning problems

In certain circumstances you may find that the Hi-Fi Personal Handset cannot learn some of the commands from another handset, or is not operating your equipment when it transmits the learnt commands. This section gives suggestions for resolving these problems.

<i>Problem</i>	<i>Explanation</i>	<i>Suggestion</i>
Cannot learn the first key in the selected source	The source you selected may contain previously learnt commands that are not compatible with the commands from your other handset.	Restart the learning process, ensuring you clear the source to learn new commands.
	The command you are learning may not contain enough unique timing information to be detected correctly.	Restart the learning process, ensuring you clear the source to learn new commands, and learn a different command first.
	The infra-red signal may be getting distorted by low battery power in your other handset. This could still be the case even if your handset operates your equipment.	Try replacing its batteries.

<i>Problem</i>	<i>Explanation</i>	<i>Suggestion</i>
	The signal from your other handset may have been incorrectly detected because the infra-red power is either very low or very high.	Restart the learning process, with the handsets positioned either slightly closer, or slightly further apart.
	The timing information may have been incorrectly detected if the position of the handsets changed during learning.	Restart the learning process, ensuring you clear the source to learn new commands. The position of the handsets should remain unchanged during the learning process.
Can only learn the first key in the selected source	The timing information from the first key you programmed may have been incorrectly detected.	Restart the learning process, ensuring you clear the source to learn new commands, and learn a different command first.
	The timing information may have been incorrectly detected if the position of the handsets changed during learning.	Restart the learning process, ensuring you clear the source to learn new commands. The position of the handsets should remain unchanged during the learning process.
Can learn some keys but not others	If you are learning commands from a dual or multi-function infra-red remote control handset, you may have to learn groups of commands in different sources.	For example, if you are learning commands from a combined TV/VCR handset, try storing the TV control commands in a different source from the VCR control commands.
	The commands that cannot be learnt may contain additional timing information that has been detected as not being compatible with the timing information of the learnt commands.	Restart the learning process, ensuring you clear the source to learn new commands, and learn the commands in a different order. Use one of the commands that could not be learnt as the first command.



<i>Problem</i>	<i>Explanation</i>	<i>Suggestion</i>
Receiving equipment does not respond to any learnt commands, or the response is intermittent	The infra-red signal may be getting distorted by low battery power in the Hi-Fi Personal Handset.	Try replacing its batteries.
	Receiving equipment may have a "blind spot" to the infra-red transmitted by the Hi-Fi Personal Handset.	Try aiming the Hi-Fi Personal Handset straight at the infra-red receiver in your equipment.
	One of the commands may have incorrectly updated the timing information during the learning process.	Try finding the command responsible for affecting the other commands. To do this, restart the learning process by clearing the source to learn new commands. As you learn each command, test the response of the receiving equipment before learning the next command. The last command learnt when the equipment stopped responding will be the command at fault. Now restart the learning process by clearing the source to learn new commands. Learn the commands in a different order, using the command at fault as the first command.
Receiving equipment does not respond to some learnt commands	Additional timing information may be required for the non-functioning commands.	Re-learn the non-operational commands without erasing the previously learnt commands.
	The non-operational commands may require additional timing information that is not compatible with the timing information of the operational commands.	Restart the learning process, ensuring you clear the source to learn new commands. Learn the commands in a different order, using one of the non-operational commands as the first command.

Maintenance

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

Cleaning the Hi-Fi Personal Handset

To clean the Hi-Fi Personal Handset

- 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

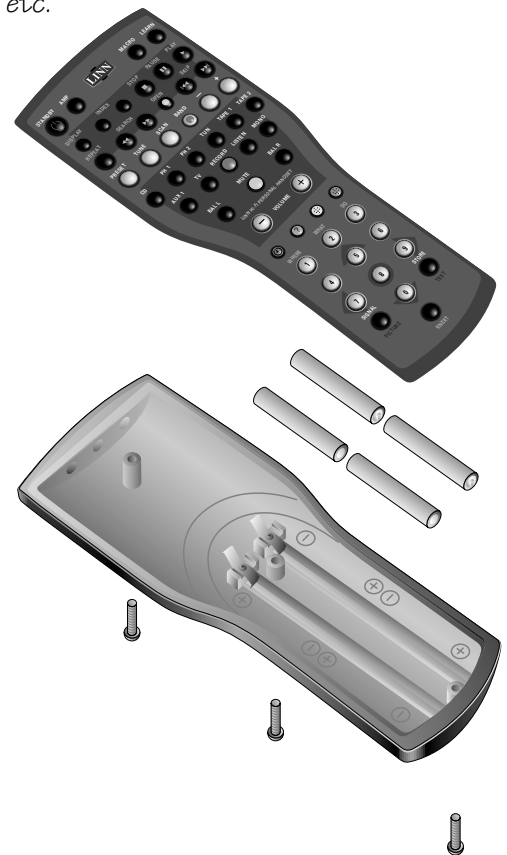
To open the Hi-Fi Personal Handset

- Remove the three screws on the back of the handset, using a small Philips screwdriver.
- With the handset upside down, tap the narrow end of the case against your hand to free the front panel from the case.
- Turn the handset over and, holding the front panel by its edges, carefully lift it up.

WARNING: Do not touch the silver contacts or components on the printed circuit board as this may damage the handset with static electricity.

To replace the batteries

- Remove the old batteries and replace with four AAA or LRO3 type batteries, checking the polarity carefully.



Do not mix old and new batteries.

To re-assemble the handset

- 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.



*Do not overtighten
the screws.*

Controlling other equipment

The following tables give details of using the Hi-Fi Personal Handset to control other equipment.

CD

<i>Hi-Fi Personal Handset key</i>	<i>CD12</i>	<i>KARIK MIMIK</i>	<i>RC-5 CD Player System 20</i>
STANDBY			STANDBY
DISPLAY	NEXT DISPLAY MODE	NEXT DISPLAY MODE	SCROLL LOCAL DISPLAY
◀ INDEX	INDEX PREVIOUS	INDEX PREVIOUS	INDEX PREVIOUS
INDEX ▶	INDEX NEXT	INDEX NEXT	INDEX NEXT
STOP	STOP	STOP	STOP
PAUSE	PAUSE	PAUSE	PAUSE
PLAY	PLAY	PLAY	PLAY
REPEAT	REPEAT	REPEAT	REPEAT CONTINUOUSLY
◀◀ SEARCH	SEARCH BACKWARD	SEARCH BACKWARD	
SEARCH ▶▶	SEARCH FORWARD	SEARCH FORWARD	
OPEN	OPEN/CLOSE DRAWER	OPEN/CLOSE DRAWER	OPEN/CLOSE DRAWER
◀◀ SKIP	SKIP PREVIOUS	SKIP PREVIOUS	PREVIOUS
SKIP ▶▶	SKIP NEXT	SKIP NEXT	NEXT
Red			SHUFFLE/REPEAT ONCE
Green			REPEAT A/B PROGRAM
Yellow			EXPAND DYNAMIC RANGE
Blue			COMPRESS DYNAMIC RANGE
0-9	0-9	0-9	0-9
PICTURE/SIGNAL			DISPLAY USER INFORMATION
TEXT/STORE			STORE EXECUTE

PH1/PH2

Hi-Fi Personal Handset key

RC-5 Audio Stack Record Player Combi, System 21

STANDBY

STANDBY

DISPLAY

SCROLL LOCAL DISPLAY

◀ INDEX

INDEX PREVIOUS

INDEX ▶

INDEX NEXT

STOP

STOP

PAUSE

PAUSE

PLAY

PLAY

REPEAT

REPEAT CONTINUOUSLY

◀◀ SEARCH

SEARCH ▶▶

SCAN FORWARD

OPEN

OPEN/CLOSE

◀◀ SKIP

PREVIOUS OPTION

SKIP ▶▶

NEXT OPTION

Red

Green

Yellow

Blue

0-9

0-9

PICTURE/SIGNAL

TEXT/STORE

STORE EXECUTE

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