INSTRUCTIONS FOR USE

Thank you for purchasing the Musical Fidelity KW250S

This model uses the very latest DAB/FM radio text receiver, top quality CD transport, ultra low jitter 24 Bit DAC technology and further jitter reduction techniques to achieve both an excellent technical specification and unparalleled DAB/FM/CD sound quality. This is complimented with a top quality 6922 tube line level preamplifier stage and two monobloc power amps capable of driving over 250W.

The KW250S is a perfect answer to most hi-fi requirements in a single, beautifully engineered package.

Used properly and carefully, it should give many years of outstanding musical reproduction.

Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.

If you have any questions about your audio system, Please consult your dealer who is there to help and advise.
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IMPORTANT! (U.K. only)

This unit is supplied in the U.K. with mains lead fitted with a moulded 13 amp plug. If, for any reason, you need to cut off the plug, please remove the fuse holder and dispose of the plug safely, out of reach of children. **It must not be plugged into a mains outlet.**

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

- Green and yellow...........Earth
- Blue..............................Neutral
- Brown............................Live

**WARNING - This appliance MUST be earthed**

As the colours of the wires of the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol : 🌐

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

If connecting to a BS1363 plug, a 13 amp fuse must be used.

**WARNING:**

ANY MODIFICATIONS TO THIS PRODUCT NOT EXPRESSLY APPROVED BY MUSICAL FIDELITY WHO IS THE PARTY RESPONSIBLE FOR STANDARDS COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.
**CLASS 1 LASER PRODUCT**

The KW250S incorporates a CD player which has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, sub-chapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as a Class 1 laser product. There is no hazardous radiation during normal use because invisible radiation emitted inside this product is completely confined within the protective housing. However you must observe the following important warnings:

**CAUTION!**

THIS CD PLAYER USES INVISIBLE LASER LIGHT. WHEN THE PLAYER OPERATES, LASER LIGHT IS RADIATED INTERNALLY. DO NOT REMOVE THE PROTECTIVE HOUSINGS. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE CAUSING EYE INJURY.

IF THIS PRODUCT DEVELOPS A FAULT, PLEASE CONTACT YOUR AUTHORISED MUSICAL FIDELITY SERVICE AGENT. DO NOT ATTEMPT TO SERVICE IT YOUR-SELF AND DO NOT CONTINUE TO USE THIS PRODUCT IN A FAULTY STATE.

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**INTERNAL LASER WARNING LABELS**

- **CAUTION! - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.**
- **VORSICHT! - UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSEINRICHTUNG UNTERRIEGT IST. NICHT DEM STRAHL AUSSETZEN!**
- **WARNING - OSYNLIG LASERSTRALNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPLAD. STRALEN AL FARLIG.**
- **ADVAREL - USYNLIG LASERSTRÅLING VID ABNING, NÅR SIKKERHEDSAFVÆRENE UDE AF Funktion UNDGA UDSÆTTELSE FOR STRÅLING.**
- **VAROITUS - SUOJAKOTELOA EI SAA AVATA LAITE SISÄLTÄ LASERDIODIN, JOKA LAHETTÄÄ (NAKYMATONTA) SILMILLE VAARALLISTA LASERSATEILYÄ.**
LASER INFORMATION:

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<tr>
<td>Optical pick-up</td>
<td>Sharp</td>
<td>GH6C005B</td>
<td>780nm</td>
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RADIO - FREQUENCY INTERFERENCE (RFI)

This equipment uses and can radiate radio frequency energy, and if not installed and operated in accordance with the instructions, may cause interference to radio communications.

However, it is designed to radiate minimal levels of RFI, and accordingly been testing to North American standards (FCC regulations - limits for a class B digital device pursuant to part 15 of the rules). These requirements are intended to provide reasonable protection against excessive interference in a residential installation.

Conversely, the product has also been checked to ensure that its own operation is not adversely affected by normal background levels of RFI received externally.

However, if interference is experienced, for instance to radio or TV broadcasts, the user is recommended to try one or more of the following measures:

- Identify the source of interference by turning off power to the CD player or other equipment individually, and checking whether the problem disappears.
- Re-orientate or relocate the receiving aerial.
- Move the CD player away from the receiver.
- Connect the CD player to a mains outlet on a different circuit from the receiver.
- Consult a dealer or experienced TV/radio technician for help.

If a problem persists, please contact Musical Fidelity's service department.
**INSTALLATION PRECAUTIONS and USER INFORMATION**

Your new KW250S is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

- Heed all warnings shown on the back of the product.
- Only connect the KW250S to a mains outlet having the same voltage as marked at the back of the unit.
- Always ensure that when disconnecting and reconnecting your audio equipment the mains supply is switched off.
- Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on them.

Do not use near water, or place water-filled containers on the KW250S, for example, a flower vase or potted plants. **If water does spill inside, immediately pull out the mains plug from the wall socket and inform your dealer, who should then check the unit before further use.** Entry of liquid into the KW250S is dangerous, and may cause electric shock or fire hazard.

- Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.
- Do not remove any covers or try to gain access to the inside. There are no internal adjustments or fuses you can replace yourself. Refer all service work to an authorised Musical Fidelity agent.

**Note: Unauthorised opening of the equipment will invalidate any warranty claim.**

- Dust regularly with a soft cloth or soft brush but be careful when using cleaning or polishing agents - they may harm the surface finish.

The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of your audio system during electrical storms, remove the mains plugs and disconnect any aerial lead.

If after-sales service is required, to help your dealer identify the KW250S please quote the serial number located on the rear panel of the unit.
INTRODUCTION

Congratulations on the purchase of your new KW250S integrated CD/DAB/FM/PRE and dual mono power amp.

The KW250S is one of the most comprehensive fully integrated Hi-Fi designs ever made, and, encloses the best elements out of all our separates into one convenient box.

The CD player has extremely low jitter, vanishingly low distortion, exemplary linearity and ultra low noise. The tuner is designed to bring DAB into the realms of hi-fidelity sound reproduction to complement the very latest technology DAB/FM receiver circuit. Great attention has been paid to internal layout, isolating each circuit section to prevent possible interaction.

The CD, DAB and FM digital data streams are first up-sampled to 192kHz, which moves noise, jitter and distortion artefacts well above the audio band. They are then passed through a new, low noise, low distortion 24-bit dual-differential digital-to-analogue converter, which allows simpler filtering of the analogue output. This in turn gives an improved audio response without the need for sharp filters that degrade sound quality. The result is a CD player and DAB/FM tuner which has a smoother response than previously possible with none of the “hardness” of other units.

The preamplifier sections are our finely tuned and tweaked tube input line level preamplifier for smooth tube sound coupled with low noise and virtually no distortion. This also includes our top quality low noise phono stage which caters for both MM and MC cartridge users.

The power amplifier consists of two mono block amplifier modules with completely separate supplies for the absolute best in separation and imaging. Rated for 250W nominal they are enough to drive even the most demanding loudspeakers with ease. Low distortion and very quiet they will deliver all music types exactly as the artist originally intended!

The resultant performance achieved by this unit is among the best in the world. It has excellent signal to noise ratio, low distortion, wide bandwidth, huge dynamic range, extraordinary resolution and fine detail.

INSTALLATION

Position the KW250S on a stable, horizontal surface where there is no risk of it being knocked, or subjected to vibration such as from loudspeakers.

Protect your KW250S from humidity - if the unit is moved from a cold place to a warm room, or in generally humid conditions, moisture can form on the pickup lens inside the player, preventing the laser beam from reading the disc. If this happens, remove the CD, close the disc drawer, and leave the unit switched on for an hour or so to allow sufficient time for the moisture to evaporate.

AERIAL (ANTENNA)

For ease of installation, a tri-band aerial is supplied with the unit. This covers the FM, DAB II, III and L-bands and picks up sufficient signal for most domestic purposes. However, if FM stereo background noise is obtrusive, radio text is corrupted or DAB cut-out is experienced, or unit is to be used in a fringe area, a rooftop DAB and FM aerial may be required. Please contact an approved aerial contractor with good local knowledge.

The tri-band aerial is plugged into the tri-band antenna F connector at the rear of the unit, and should be securely fastened by tightening the nut.

AUDIO CONNECTIONS

Outputs: Connect your loudspeakers to the terminals on the back panel marked as LEFT and RIGHT SPEAKER outputs.

Preamp outputs phono sockets are controlled by the volume and source controls. This allows connection of a second amplifier for bi-amping or increased drive.

Tape outputs of nominal line level and are constant volume for recording to tape, CD-R/RW, or any other recordable format.

If desired, the unit can also be attached to an external DAC of your choice. The unit outputs COAX and OPTICAL digital signal stream at 48kHz.

NOTE: The digital output works for CD, DAB and FM.

Inputs: The KW250S has three line level inputs and a Phono MM/MC input. PHONO MM/MC, AUX1 and AUX2 are available at the back for other signal sources.

A Portable Device Input (PDI) 3.5mm stereo jack is provided at the front which is shared with the AUX1 rear inputs. This allows easy connection of a portable player.

Two digital inputs AUX 1 (optical and coax.), AUX 2 (coax only), cater for digital sources that would benefit from the KW250S’s up to date DAC circuits. Use these inputs for better quality from mini disc, DAT or MP3, for enhanced sound quality.

NOTES ON USING COMPACT DISCS

Always hold discs by the edges and make sure they remain clean - do not touch the surface. Keep discs away from direct sunlight and heat sources, such as radiators. Clean discs with a cloth before playing them, but do not use solvents such as benzene, thinners, or antistatic spray intended for analogue records.

After playing, always return the disc to its case for storage.

CLEANING

Before cleaning the unit, switch off power at the mains switch and remove the mains plug from the wall socket.

Clean the cabinet and remote control unit using a moist cloth. We do not advise using solvents, white spirit or thinners as they could damage the surface finish.
FRONT PANEL

1. **DAB/FM** Tuning knob
2. **DISPLAY** (incorporates remote control IR receiver)
3. **CD** drawer
4. **VOLUME** knob
5. **POWER** mains on/off switch

6. **CD** function buttons
7. **TUNER** function buttons
8. **AMPLIFIER** function buttons
9. **PDI** (Portable Device Input), 3.5mm jack connector

REAR PANEL

10. **LOUDSPEAKER OUTPUTS** Right hand side
11. **PRE & TAPE OUTPUTS**
12. **PHONO, AUX 1, AUX 2/PDI INPUTS**
13. **LOUDSPEAKER OUTPUTS** Left hand side
14. **DIGITAL OUTPUTS** RCA coaxial and optical
15. **AUX 1, AUX 2 DIGITAL INPUTS** RCA coaxial and optical
16. **PHONO GROUNDING** 4mm post
17. **DAB/FM AERIAL SOCKET** F-type
18. **IEC MAINS INLET**
The remote control shown below enables functions to be operated from a convenient distance.
Equivalent buttons on the remote control have the same functions as those on the front panel of the unit. Other functions are only available by remote control.
As the handset uses an invisible infra-red light beam, the front edge must be pointed directly towards the receiver window at the front of the player, without visual obstruction between them.
If the range of the remote control greatly decreases, replace the batteries with new ones. Do not mix old and new batteries - two are required, size AAA, LR03 or SUM-4.

Please dispose of used batteries in accordance to local regulations.

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<td>PHONO – Selects Phono input</td>
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<td>CD – Selects internal CD</td>
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<tr>
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<td>TUNER – Selects internal tuner</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
<td>SELECT – To choose preset/DAB station</td>
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<td></td>
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<td>PRESET ↑ ↓ selects preset</td>
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<td></td>
<td></td>
<td>TUNE ↑ ↓ steps up/down band</td>
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<td></td>
<td></td>
<td>MUTE – Mutes unit until pressed again</td>
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<td></td>
<td></td>
<td>VOLUME UP/DOWN – sets volume level</td>
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<td></td>
<td></td>
<td>DISPLAY – Dims display</td>
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LOADING AND PLAYING COMPACT DISCS
Select CD function by pressing CD button under AMPLIFIER heading to the right of the front panel, the CD button on the remote does the same.

To load a disc, press the OPEN/CLOSE button to open the transport drawer. When the drawer is fully extended, insert the disc with the label facing upwards and then press either the OPEN/CLOSE or PLAY/PAUSE button to close the transport drawer again. If OPEN/CLOSE has been pressed, the disc drawer closes and the unit scans the contents of the disc. After a short delay, the display window then shows the total number of tracks available on the CD, and total playing time. In the following example there are 7 tracks, lasting a total of 41 minutes 56 seconds:

If mains power to the unit is switched on with a disc already loaded, it will automatically search for the disc. The display then indicates STOP, and shows the number of tracks available on the CD and total playing time, as in the above example.

DISC PLAY
If PLAY/PAUSE is pressed, the unit will begin playing from track 1, confirmed by the word PLAY appearing on the left of the display, with 1 in the centre and elapsed time on the right.

When all tracks on the CD have been played, the display shows STOP and total number of tracks on the disc.

PAUSE
Pressing the PLAY/PAUSE button on the front panel whilst a disc is playing pauses playback of the disc. PAUSE appears in the display window instead of PLAY. The disc will continue spinning, but the track does not advance and the CD's output is muted.

Pressing PLAY/PAUSE again resumes playback from the same place.

PAUSE (Remote control)
On the remote control, PLAY and PAUSE buttons have separate functions at each end of the same button. Pressing PLAY will only control disc play, and pressing PAUSE will not resume play. Note that if the disc is already playing, pressing the PLAY button reverses play to the beginning of the current track.

STOP
Playback can be stopped at any time by pressing the STOP button once. On the remote control, press either end of the button, not the middle part.

Pressing the STOP button a second time on front panel or remote opens the transport drawer. If a disc is loaded but not playing, pressing STOP once will also eject the drawer.

TRACK SELECTION
To change track, the track skip buttons PREVIOUS and NEXT on the front panel can be pressed to jump forwards or backwards one track in either direction. Corresponding TRACK buttons on the remote control are marked << and >>.

If the unit has stopped playing, a specific track can be accessed directly by pressing either PREVIOUS or NEXT to obtain the required track number, then pressing PLAY/PAUSE.

TRACK SELECTION (Remote control)
Simply press the PLAY button to start a CD playing from the first track. Alternatively, a specific track can be selected directly by pressing one of the ten track number buttons grouped in the centre-section of the remote control. The chosen track then plays after a short delay of about 5 seconds. To play a track number with two digits, press the second digit button on the remote control within this delay period, example for track 17:

Press 1:

Press 7 within about 5 seconds:

After a small pause, machine plays selected track:

If a track number is chosen which is not available on the disc, for example pressing button number 9 if the CD has only 7 tracks, an INVALID TRACK message is briefly displayed (along with elapsed time of last track played).
**REPEAT PLAYBACK**
The REPEAT button on the remote control allows the repeated playback of either one track or all tracks on the disc. By pressing the REPEAT button once, only the current track is repeated, and the display shows

```
PLAY 1 0:12
repeat track
```

If the REPEAT button is pressed a second time, “repeat disc” is displayed instead, and the entire disc is then played repeatedly.

```
PLAY 1 0:24
repeat disk
```

Pressing REPEAT a third time cancels repeat mode.

**A-B REPEAT PLAYBACK**
“A-B repeat” provides the option of playing just a certain section of the disc over and over again. Find the beginning of the required section either by listening, or using the display time as a guide. When the desired starting point is reached, press button A / B on the remote control. The display will show

```
PLAY 1 0:34
repeat a-
```

When the disc has reached the end of the required section, press the A / B button again, to display

```
PLAY 1 1:55
repeat a-b
```

and the unit continuously plays the selected part of the disc in this case, the segment of track 1 from 34 seconds to 1 minute 55 seconds. To cancel A-B repeat mode, press A / B on the remote control.

**SHUFFLE PLAYBACK**
The SHUFFLE feature allows tracks on the discs to be played in random sequence rather than the normal consecutive order.

```
PLAY 1 0:34
shuffle disc
```

Tracks are also played in a different order each time the disc is restarted, or another disc loaded. This function is obtained by pressing SHUFFLE on the remote control with the unit either stopped or playing. If the KW250S is already playing, play will continue in random order until all tracks on the disc have been played. Shuffle play is cancelled by pressing the SHUFFLE button a second time. The unit resumes normal play function, continuing to the end of the disc in normal order starting from wherever it was left by the previous random selection. From stop mode, pressing PLAY/PAUSE also begins shuffle play. If REPEAT is then pressed whilst in shuffle mode, a repeat shuffle function is obtained

```
PLAY 1 0:34
repeat shuffle
```

Pressing >> selects the next track in random order.

**SCAN INTRODUCTION**
The scan-introduction function allows play back of just the start of each track on the disc, for instance to locate a preferred track by ear. Press INTRO on the remote control, and if the player has stopped, the display will show

```
STOP 74 scan intro
```

The first ten seconds (approximately) of each track on the CD can then be played in sequence by pressing either PLAY/PAUSE on the front panel, or PLAY on the remote control. Press INTRO again to cancel introduction search mode. If INTRO mode is cancelled while the KW250S is still playing, the remainder of the entire disc will be played.

**PROGRAMMED PLAY**
The built-in program memory allows you to store up to 25 track numbers and then play them back in the held order. Each track is stored as a “step” in the program. With the CD loaded and the player stopped, first press PROGRAM on the remote control. The following is then displayed:

```
STOP 74
program 1 track 0
```

On the remote control, press the numeric button of the track number corresponding to the first track you wish to store (number 3 for example). That track number will now appear in the display:

```
STOP 74
program 1 track 3
```

Press PROGRAM again on the remote control - the next program step is selected, (prog 2) and the track number reverts to 0 ready for a new entry.

```
STOP 74
program 1 track 0
```
Continue entering track numbers in the same way up to a maximum of 25. If more than 25 tracks are attempted the memory will not accept any extra ones, and the display reverts to “prog 1”.

Remember that when entering a single-digit track number, there is a delay of about two seconds before the display accepts the entry - this is to allow time for a second button to be pressed when a double-digit number is required.

If an incorrect entry is made, say track 99 when there are only 7 tracks available on the disc, a brief error message is displayed.

If at any time you wish to add a track to the list, press the CLEAR button to obtain the next step number. Alternatively, to delete a previous entry, press CLEAR a second time to remove the last entry. Repeated pressing of CLEAR will then erase each step in reverse order. So to delete an entire program sequence from the memory, press CLEAR repeatedly until “prog 1” is shown in the display.

When the last track number has been entered, press PROGRAM a final time, then the PLAY button to start the program sequence.

If you wish to check the selection before playing back your program, the CHECK button can be pressed to step through each program entry in turn. If during this check sequence the PLAY button is pressed, the remaining part of your programmed selection will play to the end of the sequence. Otherwise, to play all the programmed tracks from the beginning of the sequence, press PLAY/PAUSE, or PLAY on the remote control.

The >> button may be pressed to jump to the next track in the programmed sequence, or |<< button to obtain the previous track in the sequence. When all programmed tracks have been played, the CD player stops. The same track selection can then be played again by pressing the PLAY/PAUSE button on the front panel, or PLAY on the remote control.

To repeat a programmed sequence continually, press REPEAT whilst playing the program.

To cancel this mode, press PROGRAM.

Note: The program contents will be cleared if you switch off the power, or open the disc drawer and load another disc. If, however, the same disc is loaded again with the power still switched on, the program sequence is retained in the memory.

KW250S display brightness can be controlled in three levels by pressing the DISPLAY button on the remote control.

The original setting is maximum brightness, but by pressing the DISPLAY button once, brightness is reduced, and a further press turns the display off. This controls display in CD, TUNER, and external source modes.
Basic problem-solving with a CD player is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power when <strong>POWER</strong> button is pressed</td>
<td>Power plug is not inserted</td>
<td>Plug in securely fully into rear socket</td>
</tr>
<tr>
<td>No playback when disc is loaded, “NO DISC” displayed</td>
<td>Disc is loaded with label side down Incorrect disc type Dirty disc Moisture/humidity or cold affecting laser lens</td>
<td>Re-load with label side up Please load a standard audio CD Clean disk and try again Leave unit on for an hour to allow moisture to evaporate.</td>
</tr>
<tr>
<td>No audio output, or too low level output</td>
<td>Output muted Volume set too low</td>
<td>Check mute is not on Turn volume up</td>
</tr>
<tr>
<td>Sound is severely distorted, and volume control needs to be turned down very low</td>
<td>Line level audio lead is connected to phono input sockets of the amplifier</td>
<td>Re-connect lead to auxiliary sockets or other “line level” amplifier input</td>
</tr>
<tr>
<td>Mis-tracking (sound jumping)</td>
<td>Player is receiving vibration or shock Disc is dirty Moisture/humidity or cold affecting laser lens</td>
<td>Change position of player away from loudspeakers Clean disc surface Leave unit on for an hour to allow moisture to evaporate.</td>
</tr>
<tr>
<td>Hum</td>
<td>Audio connector plug is not fully pushed in</td>
<td>Insert plug securely</td>
</tr>
<tr>
<td>Interference noise heard from radio tuner</td>
<td>Player is positioned too near the tuner</td>
<td>Keep a reasonable distance between player and tuner, or switch off player power</td>
</tr>
<tr>
<td>Remote control does not work</td>
<td>Player’s <strong>POWER</strong> switch is set to off Battery(ies) fitted the wrong way round Batteries are flat Remote control is not pointed directly towards the front panel of the player</td>
<td>Set switch to on Insert batteries correctly Change batteries for a new set Ensure there is no obstruction between the remote control and player front</td>
</tr>
<tr>
<td>Remote control range has greatly reduced</td>
<td>Batteries are running out</td>
<td>Change batteries – for a new set</td>
</tr>
</tbody>
</table>

Remember - the most vulnerable part of a CD playing system is the disc itself. The most likely cause of a disc not playing is that the disc itself is faulty, scratched or simply dirty. Never open the case of the unit yourself, as this will invalidate the guarantee. If none of the above actions affect a cure, please contact your dealer or Musical Fidelity service agent.
DAB TUNER BUTTONS

Press **TUNER** under **AMPLIFIER** heading to select the internal DAB/FM tuner.

Note: Whenever the power is turned ON, the station you were previously receiving will be selected automatically. The name of the station appears in the display.

![BBC World Service
BBC National DAB]

All settings, and stored stations, will be retained in memory while the unit is turned off. On selection, the last band (DAB/FM) and station is remembered.

**BAND**

This button alternates the tuner between receiving DAB and FM stations.

**AUTO-TUNE**

To update your tuner with locally available DAB stations Press the **AUTO TUNE** button.

![AUTO TUNE
QUICK SCAN]

The tuner will search through all the ensembles and pick out all the locally available stations.

When a station is found, the name is briefly displayed and the station tally at the top right increments. Note: if there are stations already stored, the tally does not start from 0, but from the number of stations previously stored. In this manner, the station list is updated. Once all the locally available bands have been scanned, the unit reverts to the first station found by name (in alphabetical order), or the previous broadcast being listened to, if applicable.

TUNE UP/DOWN

To select a station, simply turn the left-hand knob to cycle through the list of receivable broadcasts in your area. When the required station is displayed, push the knob or press the **SELECT** button to listen.

See the section on the **PRESET** buttons to store favourite stations for easy recall.

**PRESET UP and PRESET DOWN**

**PRESET UP/DOWN** buttons are used to select one of ten DAB preset memory locations. Press select when the desired preset is displayed.

**STORE**

It is possible to store favourite stations in preset memory locations using the **STORE** button as follows:

Tune to the station required:

![BBC World Service
BBC National DAB]

Press **PRESET UP/DOWN** buttons until the desired preset is displayed.

![BBC World Service
<Empty preset 1>]

Press and hold the **STORE** to accept this preset. The display will indicate the preset is saved, then reverts to the selected station.

Note: this will overwrite any station stored previously on this preset.

Briefly pressing the button will display current preset without storing.

There are 10 presets available for programmes on the DAB band (in addition to the 10 provided for FM). Presets are remembered even if the unit is switched off.

**MONO/STEREO***(remote only)***

This button has no function when in DAB mode.
**INFO**

Displays the current broadcast information in the following order:
- DAB programme text
- Music Type
- Network name
- Date and time (as transmitted by network)
- Transmission mode and bit rate
- Ensemble and frequency
- Signal Strength
- Returns to top of this list

**MENU (DAB options)**

Press **MENU** to access menu options whilst in DAB mode.
Use the **TUNE** up/down buttons to cycle through the options, and the **SELECT** button to choose displayed option.

Menu options available for DAB are:

- **Manual Tune**: Allows manual search of ensembles and DAB frequencies
- **Canadian L band**: Enables Canadian L-Band
- **European L Band**: Enables European L band
- **Service Base**: Factory use only
- **Customer Version**: Software version reference
- **System reset**: Resets all presets and performs a new scan of DAB band
AUTO-TUNE
To auto search stations, press the AUTO TUNE button. The tuner will search upwards through the FM band and pick out the next station for you.

105.80MHz          FM

If pressed and held for more than a second, the tuner will scan back down the band to the previous station (the scan-down function is not available on the remote).

BAND
This button alternates the tuner between receiving FM and DAB stations

TUNE UP/DOWN
To manually tune to a station, simply turn the left-hand knob to cycle through the FM band. Turning slowly gives fine-tuning steps (50kHz).

When the required station frequency is displayed, the station should be heard, and after a few seconds radio text information is displayed, if available.

PS: Radio 1          FM

See the section on the PRESET buttons to store favourite stations for easy recall

PRESET UP and PRESET DOWN
PRESET UP/DOWN buttons are used to select one of ten FM preset memory locations. Press select when the desired preset is displayed.

STORE
It is possible to store favourite stations in preset memory locations using the STORE button as follows:

Tune to the station required:

PS: Radio 1          FM

Press PRESET UP/DOWN buttons until the desired preset is displayed.

Press and hold STORE to accept this preset. The display will indicate the preset has saved

and then revert to selected station.

PS: Radio 1          FM

Note: this will overwrite any station stored previously on this preset.

Briefly pressing the button will display current preset without storing. There are 10 presets available for programmes on the FM band (in addition to the 10 provided for DAB). Presets are remembered even if the unit is switched off.

MONO/STEREO (remote only)
This button enforces mono reception when inadequate aerial signal strength results in noisy stereo reception.

MONO ‘forces’ mono at all times until the button is pressed again for AUTO. In AUTO mode, the tuner automatically switches according to signal strength.

INFO
Displays the current broadcast information in the following order:

PI: Programme identification*
PTY: Programme type*
RT: Radio text*
CT: Clock date and time (as transmitted by network)*
MS: Music/Speech (info only)*
DI: Decoder information*
Signal Strength with bar graph
Audio mode
AF: Alternate frequency*
- Returns to top of this list
* Relies on FM RDS. Not displayed if no or insufficient RDS signal.

MENU (FM options)
Press MENU to access menu options whilst in FM mode.

Use the TUNE up/down knob to cycle through the options, and the SELECT button to choose displayed option.

Menu options available for FM are:

System reset: RESETS all presets and tuning to
87.50MHz (beginning of FM Band)
Customer Version: Current software version
Basic problem-solving with a tuner is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power when <strong>POWER</strong> button is pressed</td>
<td>Mains power plug is not inserted fully into rear socket</td>
<td>Plug in securely.</td>
</tr>
<tr>
<td>No audio output</td>
<td>Mute function is still selected on the pre-amp or amplifier</td>
<td>Cancel mute function on the pre-amp or amplifier.</td>
</tr>
<tr>
<td></td>
<td>Tape monitor function on the pre-amp or amplifier has been selected accidentally</td>
<td>Cancel tape monitor function on the pre-amp or amplifier.</td>
</tr>
<tr>
<td></td>
<td>Speakers not connected, or incorrectly wired</td>
<td>Check speaker cables</td>
</tr>
<tr>
<td>Excessive background noise (hiss or crackle on FM)</td>
<td>Position of aerial incorrect.</td>
<td>Reposition aerial.</td>
</tr>
<tr>
<td>Audio cuts out on DAB</td>
<td>Aerial signal strength insufficient.</td>
<td>Consider a rooftop DAB/FM aerial see P.6 <strong>Aerial (Antenna)</strong></td>
</tr>
<tr>
<td>Tuner does not display FM RDS station name and/or text</td>
<td>Tuned station does not transmit the RDS feature</td>
<td>RDS information feature therefore unavailable.</td>
</tr>
<tr>
<td></td>
<td>Signal insufficient to receive RDS</td>
<td>Try repositioning the whip aerial if used. Improve the aerial.</td>
</tr>
<tr>
<td>Remote control does not work</td>
<td>Tuner’s <strong>POWER</strong> switch is set to off</td>
<td>Set switch to on</td>
</tr>
<tr>
<td></td>
<td>One or more batteries fitted the wrong way round</td>
<td>Insert batteries correctly</td>
</tr>
<tr>
<td></td>
<td>Batteries are flat</td>
<td>Change batteries – do not mix old and new ones</td>
</tr>
<tr>
<td></td>
<td>Remote control is not pointed directly towards the front panel of the tuner</td>
<td>Ensure there is no obstruction between the remote control and player tuner</td>
</tr>
<tr>
<td>Remote control range has greatly reduced</td>
<td>Batteries are running out</td>
<td>Change batteries for a new set</td>
</tr>
</tbody>
</table>

If none of these actions affect a cure, please contact your dealer, or an authorised Musical Fidelity service agent. Remember; never open the case of the KW250S yourself, as this will invalidate the guarantee.
All input, output and power connections should be made with the mains power switched OFF.

**INPUT CONNECTIONS**

**Phono:** The KW250S has a pair of RCA type phono input sockets intended for use with moving magnet (MM) or moving coil (MC) pickups. Some turntable/pickup arm combinations are fitted with an extra wire for chassis earth. This should be connected to the earth terminal on the back panel.

**Line level inputs:** The unit also has two stereo pairs of RCA “line level” input sockets controlled by the internal volume setting. They both have the same input sensitivity, and are therefore suitable for use with any source component having a line output of 300mV nominal. The two sockets on the rear panel are marked, AUX1, AUX2/PDI, corresponding with function selector buttons on the front panel. The AUX2/PDI input sockets on the back share the same input as the PDI input jack at the front. Do not connect devices to both sides of the AUX2 input simultaneously. Please see note P.20

**Digital inputs:** Digital sources are catered for on the AUX1, AUX 2 inputs. Unit automatically switches AUX1 input to digital source type (coax/optical) on insertion of a lead with digital signal present.

**OUTPUT CONNECTIONS**

**Speakers:** Connect your loudspeakers to the terminals on the back panel marked as **LEFT** and **RIGHT** SPEAKER outputs. Make sure both speakers are connected with the same polarity.

**PRE-:** The KW250S has its pre-amplifier output available from RCA sockets on the back panel marked **PRE-OUT**, and is controlled by the volume adjustment. This is to allow “bi-amplification” using suitable external amplifiers and crossover networks to power the speaker drive components separately, giving noticeable improvement in clarity, imaging and bass weight. In this arrangement, typically the KW250S speaker outputs may be used to drive the speaker’s “tweeter” (high audio frequencies), and an external higher power stereo amplifier(s) could drive the “woofer” (low frequencies).

The KW250S’s **PRE OUT** RCA sockets would therefore be connected to the input of the external “woofer” amplifier in this example. If you are in doubt about bi-amplification, please contact your dealer for advice.

**TAPE OUT:** The KW250S has a single tape output with facilities for recording material to a suitable line-level recorder such as tape, CD-R/RW, minidisk etc. The tape deck’s line inputs are connected to the units’ **TAPE OUT** sockets to record the material being listened to. The line outs should be connected to the unused of the **AUX** inputs.
STARTING . . . .

Once all connections are made, switch on the unit, using the POWER button to the bottom left of the front panel, the front panel of the KW250S- the blue display will light indicating that the unit is on. The feet glow red to indicate speaker outputs are muted, for about fifteen seconds, so no sound will be heard from your speakers. Once the 15 seconds is up, the feet glow orange to indicate unit is usable, but still warming up. At this stage sound output is now available. After 30 minutes, the feet glow blue to indicate unit is fully warmed up.

VOLUME

The volume control knob, to the right of the front panel, should be adjusted for normal listening levels.

Whilst being adjusted, the volume setting is shown in the display window. The settings range from 0 to 100 in 1dB resolution steps giving about +19db out from the preamp outputs at 100 setting. Note: to prevent damage to hearing and speakers, the switch-on volume setting is limited to 50 maximum. Please readjust setting after switch on if necessary

PHONO INPUT

To use the phono input, connect your turntable cartridge outputs to the phono input sockets (see p.8). Pressing the phono button selects the corresponding input.

Pressing a second time alternates the input for moving magnet (MM) or moving coil (MC)

Choose the input that best describes the cartridge type being used. You can also select the Phono input by using the remote handset, (see p. 9) but MM/MC switching is not available on the remote.

CD

Selects the internal CD player. Please refer to p.10 for advice and player functions.

TUNER

Selects the internal tuner. Please refer to p.14 for advice and tuner functions.

AUX 1

To use the AUX1 input, connect your external source to the AUX1 input (see p.8). Pressing the AUX1 button selects the corresponding input. On AUX1 you have the option of analogue line level, or digital optical/coax inputs.

The unit switches automatically to digital inputs and selects the correct one when a digital signal is present.

For sources with digital outputs, we recommend you use the KW250S digital inputs to take advantage of the up-sampling technology.

AUX 2

To use the AUX2 input, connect your external source to the AUX2 input (see p.8). Pressing the AUX2 button selects the corresponding input. On AUX 2, you have the option of analogue line level (rear phono plugs or front 3.5mm jack PDI input), or digital coax input.

The unit switches automatically to digital input for AUX2 when a digital signal is present.

For sources with digital outputs, we recommend you use the KW250S digital inputs to take advantage of the up-sampling technology.

The AUX 2/PDI input is also available at the front of the unit in the form of a 3½ mm jack PDI (Portable Device Input) socket to enable personal/portable devices such as MP3 players and minidisk walkman to be played thorough the unit.

TIP: For best listening experience using your portable device, we recommend you set its outputs for “line level”
available. Please refer to your portable device’s manual, for more details

Note: Please note the sockets PDI at the front and AUX2/PDI at the back are electrically connected together:

If the front PDI socket is used, please ensure you disconnect any devices and wires connected to the rear AUX2/PDI connectors.
If the rear AUX2/PDI connectors are used, please ensure you disconnect any devices and wires connected to the front PDI socket

Failure to do so could result in equipment failure.

RECORDING
To record, to any format of your choice, simply select the required source with the input selector button on the front panel or remote control. This source will now be routed to the KW250S TAPE OUT for recording by tape deck, CD recorder DAT, minidisk, or computer soundcard input. You will also be able to hear the selected source through the loudspeakers.

Note - adjustment of the volume control has no effect on the recording level.

use, as opposed to “headphones”, if the option is
Basic problem-solving with an amplifier is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power when <strong>POWER</strong> button is pressed</td>
<td>Mains power plug is not fully inserted into rear socket</td>
<td>Plug in securely</td>
</tr>
<tr>
<td>No sound</td>
<td>Mute function is still active</td>
<td>Press the <strong>MUTE</strong> button on the remote control to cancel</td>
</tr>
<tr>
<td></td>
<td>Wrong connections between input sources and the unit</td>
<td>Check audio input lead connections</td>
</tr>
<tr>
<td></td>
<td>Speakers not connected, or incorrectly wired</td>
<td>Check speaker cables</td>
</tr>
<tr>
<td></td>
<td>Devices connected to both AUX2 rear connector and PDI front panel input simultaneously</td>
<td>Remove one of the devices</td>
</tr>
<tr>
<td>Sound is not precise, lacking in bass and stereo image</td>
<td>Speakers are connected out of phase, i.e., connections to one speaker (+ and -) are reversed</td>
<td>Ensure speakers are connected correctly</td>
</tr>
<tr>
<td>Hum</td>
<td>Audio connector plug not fully pushed in</td>
<td>Insert plug securely</td>
</tr>
<tr>
<td>Remote control does not work</td>
<td>Amplifier’s <strong>POWER</strong> switch is set to off</td>
<td>Set switch to on</td>
</tr>
<tr>
<td></td>
<td>One or more batteries fitted the wrong way round</td>
<td>Insert batteries correctly</td>
</tr>
<tr>
<td></td>
<td>Batteries are flat</td>
<td>Change batteries for a new set</td>
</tr>
<tr>
<td></td>
<td>Remote control is not pointed directly towards the front panel of the amplifier</td>
<td>Ensure there is no obstruction between the remote control and amplifier front</td>
</tr>
<tr>
<td>Remote control range has greatly reduced</td>
<td>Batteries are running out</td>
<td>Change batteries for a new set.</td>
</tr>
</tbody>
</table>

If none of these actions affect a cure, please contact your dealer, or an authorised Musical Fidelity service agent. Remember; never open the case of the KW250S yourself, as this will invalidate the guarantee.
CD:

Disc mechanism: Philips
Total correlated jitter: < 135 pS

DAC:

DAC circuits: 24 bit Delta-Sigma (Bit stream) dual differential 8x over sampling
Up sampling: 192 kHz
Total correlated jitter: < 135 pS
Linearity: < 0.1 dB down to -96 dB
Output digital 0 dB level: 2.15 VRMS at 1 kHz nominal
Analogue output impedance: 47 Ohms
Frequency response: 10 Hz to 20 kHz -0.2 dB max
Channel separation: > 105 dB 20 Hz to 20 kHz
Signal / noise ratio: > 113 dB “A” weighted
Total harmonic distortion: < 0.003% 10 Hz to 20 kHz

TUNER:

DAB Specifications
Supported DAB modes: I, II, III, and IV VHF 174 240 MHz RF frequency range
L-Band (standard and Canada) 1452 1492 MHz
VHF sensitivity: -96 -97 dBm (Measured to EN50248)
L-Band sensitivity: -95 -96.5 dBm (Measured to EN50248)
L-band after error correction: -15 dBm Maximum Input Signal for Pseudo channel BER with real value 0.02
Band III after error correction: 0 dBm
Adjacent Channel Selectivity: 32 33 dBm (Measured to EN50248)
Far-off selectivity: 48 dBm (Measured to EN5024845)
Acquisition sensitivity: 101 dBm
Input Impedance: 50 Ω F type connector (to VHF/L-Band diplexer)

FM Specifications
RF Frequency Range: 87.5-108 MHz
RF Sensitivity
(S+N)/N=26dB, 90 MHz@22.5 KHz: 5 μV Dev. F.mod=1 KHz
RF Limiting Sensitivity: 0.5 μV
(S+N)/N Ultimate s/n ratio: 63 dB (90MHz@200mV/22.5KHz Dev. Fmod=1 KHz)
THD: 0.5% (90MHz@200mV/75KHz Dev. Fmod=1 KHz)
Stereo Channel Separation: 30 dB
RDS data: CENELEC EN50067 compliant

WHIP AERIAL:

Operating Frequency
FM Band 88-108 MHz
Band III 174-240 MHz
L-Band 1452-1492 MHz
Gain
FM & Band III: 2 dB
L-Band: 5 dB
Impedance: 75 Ω
S.W.R.: < 2:0:1 at res. freq.
Polarization: Vertical
Connector: F-type
Operating temperature: -20 to +65°C
Storage temperature: -30 to +75°C
Length: Sleeve 36 mm
Retracted 153 ± 10 mm
Extended 646 ± 10 mm
Mechanical Fixing: 180° swivel joint on plug with locking nut
**Output:**

- **Power:** 250 Watts per channel into 8 Ohms (24dBW), 400 Watts per channel into 4 Ohms
- **Voltage, RMS:** 45 Volts 20Hz to 20 kHz
- **Voltage, Peak-to-peak:** 127.3 Volts
- **Current peak-to-peak:** 75 Amps
- **Damping factor:** 140
- **Output devices per channel:** 4
- **Pre-out impedance:** 50 Ohms

**Line inputs:**

- **THD + noise, 20Hz to 20 kHz:** < 0.01%
- **Signal / noise ratio:** > 100dB ‘A’-weighted
- **Input sensitivity for 250 Watts:** 330mV
- **Input impedance:** 220k Ohms
- **Overload margin:** 26dB
- **Channel separation:** > 70dB typical
- **Frequency response:** 20Hz to 20 kHz, +0, -0.2dB

**Phono input:**

- **RIAA/IEC combined response (see graph)**
- **Signal / noise ratio:** > 96dB ‘A’-weighted
- **Input sensitivity:** 2.5mV (moving magnet)
- **Input impedance:** 47k Ohms
- **Overload margin:** 24dB

**Connections:**

- **Aerial input:** 1 F-type (female) with securing thread, DAB/FM
- **Digital inputs:** 1 optical (TOSLINK), 2 S/PDIF (RCA connector),
- **Digital outputs:** 1 optical (Toslink), 44.1/48 kHz
- **Line level inputs:** 2 pairs line level RCA connectors,
  - 1 front panel 3.5mm jack socket (sharing AUX2 input)
- **Line level outputs:** 1 pair phono (MM/MC) RCA connectors,
  - 1 pair RCA [preamp] controlled by the volume,
  - 1 pair RCA [tape record] fixed line level output
- **Speaker outputs:** 1 pair 4mm banana plug/binding posts per channel.
- **Power requirement:** 100 / 115 / 230Volts AC 50 / 60Hz (factory pre-set),
  - 700 Watts maximum into 8 Ohms, 80 Watts idle

**Weight:**

- 29.5 kg, 65 lbs unit only, unboxed
- 37.0 kg, 81.5 lbs in shipping carton

**Dimensions:**

- 485 mm, 19.1 inches wide
- 170 mm, 6.7 inches high including feet
- 470 mm, 18.5 inches deep including terminals

**Standard accessories:**

- Telescopic tri-band aerial with F-plug connector,
- IEC type mains lead (16-Amp type), Remote control (A5, universal type),
- 2 batteries size LR03 or AAA, manganese alkaline type

Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice.
<table>
<thead>
<tr>
<th>RELEASE</th>
<th>DATE</th>
<th>CHANGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue 1</td>
<td>1st June 2006</td>
<td>[1st release]</td>
</tr>
<tr>
<td>Issue 2</td>
<td>19th June 2006</td>
<td>Presentation updated.</td>
</tr>
</tbody>
</table>