X-PLORA ^{V8}

X-^{V8} SERIES DAB/FM TUNER

X-PLORA ^{V8}
DAB-FM TUNER

BAND

SEARCH

I R

TUNE ▲

TUNE ▼

SELECT
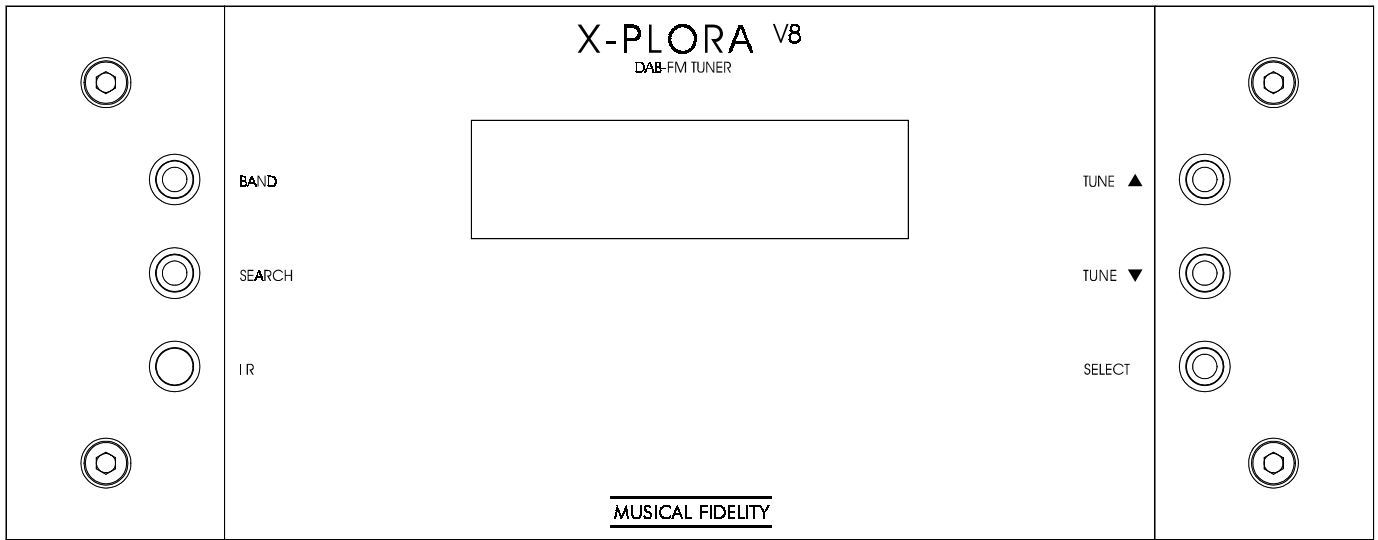
MUSICAL FIDELITY

INSTRUCTIONS FOR USE

Thank you for purchasing the Musical Fidelity X-PLORA ^{V8} tuner.

This model uses the very latest DAB/FM radio text receiver to achieve excellent technical specification and unparalleled broadcast sound quality, a perfect answer to digital and analogue tuner requirements in a small, 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.*

MUSICAL FIDELITY

INSTALLATION PRECAUTIONS and USER INFORMATION

Your new X-PLORA ^{V8} 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 X-PLORA ^{V8} 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 X-PLORA ^{V8}, 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 X-PLORA ^{V8} 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 X-PLORA ^{V8} please quote the serial number located on the rear panel of the unit.

DISPOSAL

The crossed out wheeled bin label that appears on the back panel of the product indicates that the product must not be disposed of as normal household waste. To prevent possible harm to the environment please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact your local government office or your retailer for available collection facilities.

DISPOSITION

La poubelle sur roulettes barrées X, qui apparaît en logo sur le panneau arrière du produit, indique que celui-ci ne doit pas être traité comme un déchet domestique commun. Afin de protéger l'environnement, ce produit électronique devra être géré séparément et donc recyclé selon les nouvelles normes Européennes Rohs concernant les déchets d'appareils électroniques. Prière de contacter les services concernés gouvernementaux ou votre point de vente pour l'élimination et l'enlèvement de déchets électroniques équipés de composants électroniques.

DISPOSAL

La etiqueta cruzada hacia fuera del compartimiento que aparece en el panel trasero del producto indica que el producto no se debe reciclarse como basura normal de la casa. Para prevenir daños posible al ambiente separe por favor el producto de otras basura para asegurarse de que puede ser reciclada de una manera ambientalmente segura. Entre en contacto por favor a su oficina gubernamental local o a su minorista para las instalaciones disponibles de la colección.

RIFIUTI

L'etichetta del cassonetto barrato riportato sul retro dell'apparecchio indica che il prodotto non deve essere smaltito tramite la procedura normale di smaltimento dei rifiuti domestici. Per evitare eventuali danni all'ambiente, separare questo prodotto da altri rifiuti domestici in modo che possa venire riciclato in base alle procedure di rispetto ambientale. Per maggiori dettagli sulle aree di raccolta disponibili, contattate l'ufficio govenativo locale od il rivenditore del prodotto.

FACHGERECHTE ENTSORGUNG:

Das auf der Geräterückseite angebrachte Label deutet darauf hin, dass das Produkt nicht mit konventionellem Hauskehricht entsorgt werden darf. Um Schäden und Verschmutzungen an Umwelt und Mensch zu vermeiden, muss das Produkt fachgerecht entsorgt und von anderem Abfall getrennt werden. Wenden Sie sich bei Fragen hierzu an Ihren Fachhändler oder an eine öffentliche Informationsstelle.

AFVAL

Het label op de achterzijde van dit apparaat, een afvalbak op wielen met een kruis doorgehaald, geeft aan dat dit apparaat niet samen met gewoon huishoudafval mag worden weggegooid. Om mogelijke schade aan onze leefomgeving te voorkomen dient dit apparaat, gescheiden van gewoon huishoudelijk afval, te worden afgevoerd zodat het op een milieuvriendelijke manier kan worden gerecycled. Neem voor beschikbare inzamelplaatsen contact op met uw gemeentelijke reinigingsdienst of met uw elektronica leverancier.

HÄVITTÄMINEN

Yliruksattua jäteastiaa kuvaava tarra tuotteen takalevyssä kertoo, että tuotetta ei saa käsitellä normaalina talousjätteenä. Ympäristön suojelemiseksi on tuote pidettävä erillään muusta jätteestä ja se on kierrätettävä ekologisesti kestävällä tavalla. Ota yhteyttä laitteen myyjään tai Pirkanmaan Ympäristökeskukseen lähimmän kierrätyskeskuksen löytämiseksi.

AFSKAFNING

Logoet med en skraldespand med kryds over på bagsiden af apparatet indikerer at dette produkt ikke må kasseres som normal husholdningsaffald. For at forebygge mulig skade på miljøet, bedes De separere dette produkt fra andet affald, og sikre at det bliver genbrugt på en miljørigtig måde. Kontakt venligst de lokale myndigheder eller din forhandler for oplysning om nærmeste tilgængelige opsamlingssted for elektronikaffald.

ΔΙΑΔΙΚΑΣΙΑ ΑΠΟΡΡΙΨΗΣ

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INTRODUCTION

Congratulations on the purchase of your new X-PLORA ^{V8} DAB/FM tuner.

The X-PLORA ^{V8} is an advanced DAB/FM receiver with radio text features for FM. Its case design complements the X-^{V8} series components which include an Integrated amplifier and CD player all in the same convenient size.

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 result is a DAB/FM tuner which has a smoother response than previously possible with none of the "hardness" of other units.

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

UPGRADE PATH

Early in 2007 two interesting new X-^{V8} series products are coming.

- The TRIPLE-X170 PSU is an upgrade Power Supply Unit. It increases the power of your X-T100 to 85+85 wpc and improves its peak current. The TRIPLE-X170 PSU will power the X-T100, X-RAY^{V8} and X-PLORA^{V8} simultaneously. Any product connected to it will sound better.

- The X-DAC^{V8} is a super-performance Digital to Analogue Converter with a tube output. Its performance is verging on state-of-the-art and sounds extraordinary. The X-DAC^{V8} is self-powered and also has power supply outlets for the X-RAY^{V8} and X-PLORA^{V8}. When the X-RAY^{V8} is paired with the X-DAC^{V8}, what you have is a mini KW25 system (the KW25 Transport/DAC received incredible reviews which recon it's probably the best CD player ever).

INSTALLATION

Position the X-PLORA ^{V8} on a stable, horizontal surface where there is no risk of it being knocked, or subjected to vibration such as from loudspeakers.

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 amplifier's left and right **TUNER** or **AUX** (line level) inputs to the RCA sockets on the back panel marked as **LEFT** and **RIGHT** outputs.

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 DAB **_and_** FM.

POWER CONNECTION

The power lead should be connected to a **Musical Fidelity** power supply unit designed for this product, such as the **TRIPLE-X** (see your dealer for more information). The connector from this tuner mates with the 4-way socket labelled **X-PLORA^{V8}** on the rear of the power supply unit. The connector should fit comfortably with a small click when properly seated. ***Do not force the connector.***

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.

3-component setup, standard power supply

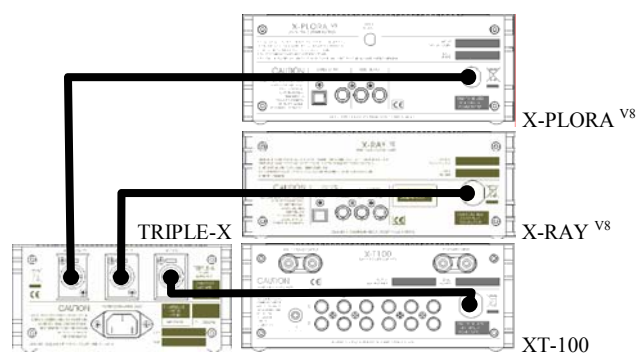X-PLORA ^{V8}

TRIPLE-X

X-RAY ^{V8}

XT-100

Figure 1

The standard 3-component setup using the original **TRIPLE-X PSU** (bottom left) is shown in figure 1.

The power connector from the **X-PLORA^{V8}** mates with the 4-way socket labelled **X-PLORA^{V8}** on the rear of the **TRIPLE-X PSU**. The connector should fit comfortably with a small click when properly seated.

The power connector from the **X-RAY^{V8}** mates with the 5-way socket labelled **X-RAY^{V8}** on the rear of the **TRIPLE-X PSU**. The connector should fit comfortably with a small click when properly seated.

The power connector from the **XT-100** Integrated amplifier mates with the 6-way socket labelled **XT-100** on the rear of the **TRIPLE-X PSU**. The connector should fit comfortably with a small click when properly seated.

3-component setup, upgraded power supply

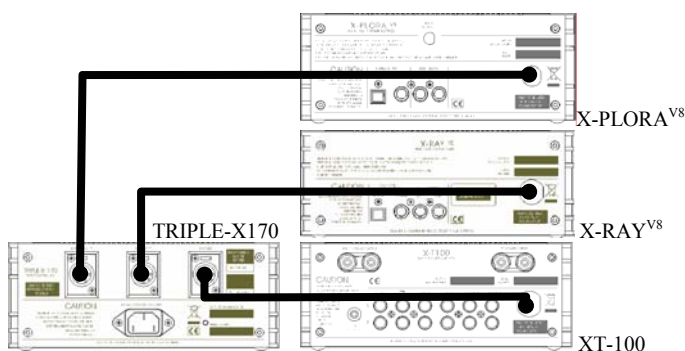

X-PLORA^{V8}

TRIPLE-X170

X-RAY^{V8}

XT-100

Figure 2

The upgraded 3-component setup using the **TRIPLE-X170 PSU** (bottom left) is shown in figure 2.

The wiring is identical to that given under the standard setup shown above. Simply remove the **TRIPLE-X PSU** and use the **TRIPLE-X170 PSU** in its place.

4-component setup, upgraded power supply

X-PLORA^{V8}

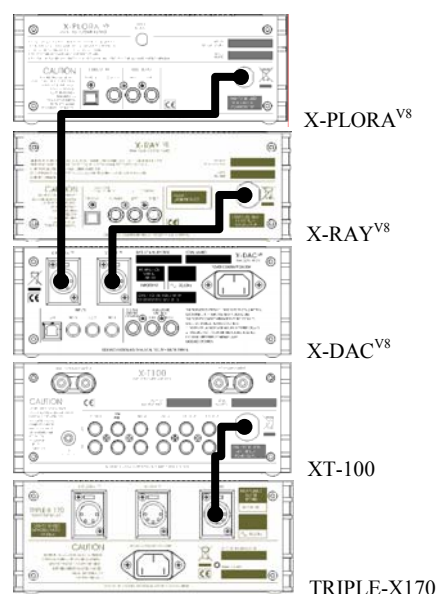X-RAY^{V8}

X-DAC^{V8}

XT-100

TRIPLE-X170

Figure 3

The recommended power supply wiring for the four-component setup, including upgrade power supply and **X-DAC^{V8}**, is shown in figure 3.

The power connector from the **X-PLORA^{V8}** mates with the 4-way socket labelled **X-PLORA^{V8}** on the rear of the **X-DAC^{V8}**. The connector should fit comfortably with a small click when properly seated.

The power connector from the **X-RAY^{V8}** mates with the 5-way socket labelled **X-RAY^{V8}** on the rear of the **X-DAC^{V8}**. The connector should fit comfortably with a small click when properly seated.

The **XT-100** integrated amplifier should be powered from the upgrade **TRIPLE-X170** power supply unit. Connect your **XT-100** to this supply through the 6-way XLR socket at the back. The **X-PLORA^{V8}** and **X-RAY^{V8}** are now supplied from the **X-DAC^{V8}**. This frees up reserve supply for the power amplifiers in the **XT100**.

This is by no means an exhaustive list, as it is possible to use the original TRIPLE-X power supply, say, to supply the CD player alone further isolating it from the DAC and other circuits. The beauty of this system is its incredibly flexible allowing considerable tweaking to obtain optimum audio performance.
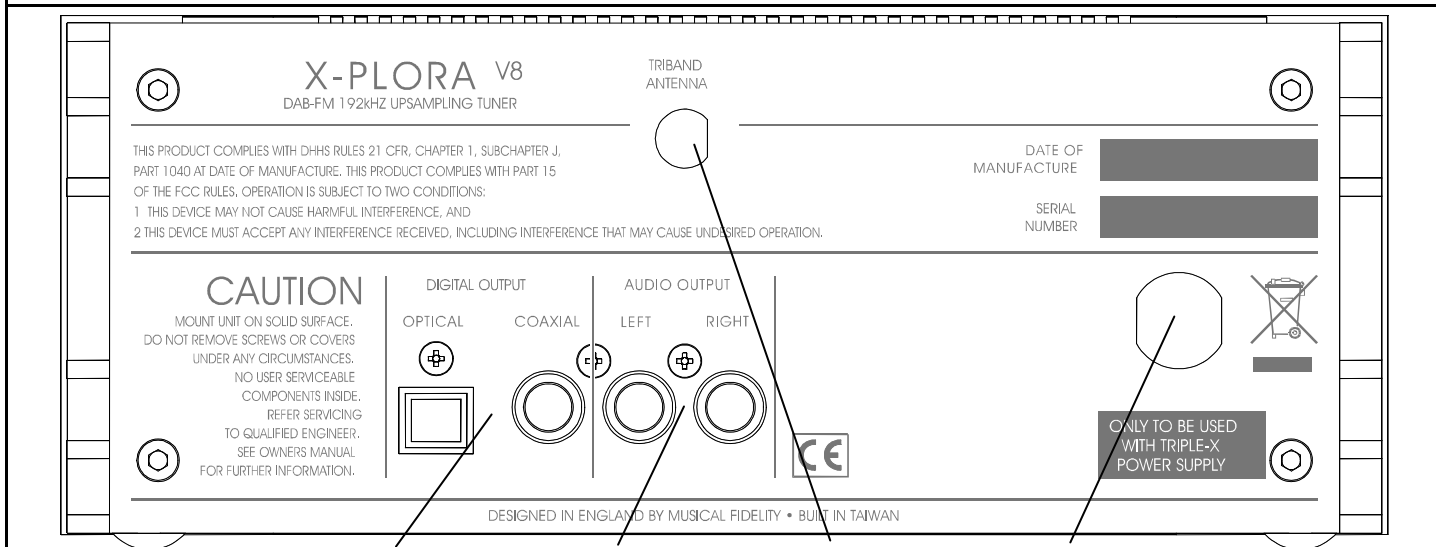
X-PLORA V8

FRONT PANEL
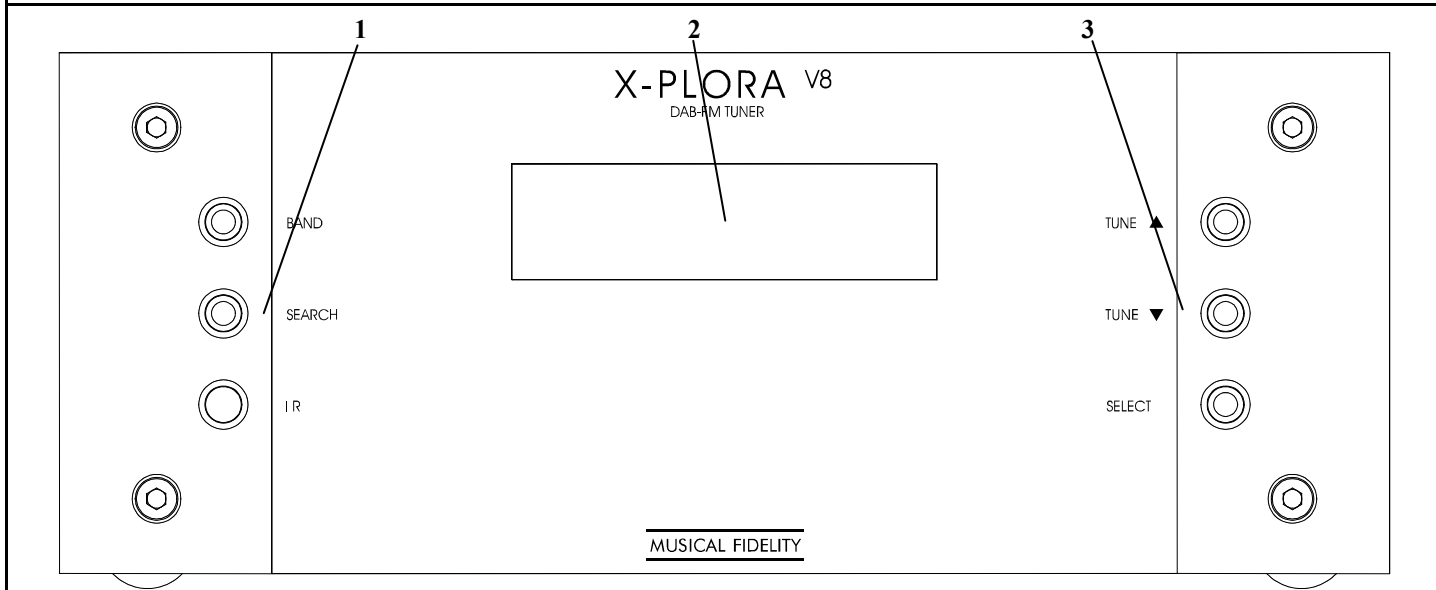
1. **BAND, SEARCH** buttons and **IR** lens
2. **DISPLAY** window

3. **TUNE UP/DOWN, SEARCH** buttons

REAR PANEL

4. **DIGITAL OUTPUTS** RCA coaxial and optical
5. **LEFT AND RIGHT** RCA Phono outputs

6. **DAB/FM** aerial F-TYPE
7. **POWER CABLE** for connection to Triple-X psu only

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.

Tuner Buttons:

INFO – To access broadcast information

MENU – to choose options

AUTO TUNE – finds previous/next broadcast

MONO/STEREO – Option for weaker FM stations

DAC Buttons:
DIG 1 – Selects DAC digital input 1
DIG 2 - Selects DAC digital input 2
DIG 3 - Selects DAC digital input 3
USB - Selects DAC USB input

Amplifier Buttons:
PHONO – Selects Phono input
AUX 1 – Select Source AUX1 or PDI
AUX 2 – Select source AUX 2
AUX 3 – Select source AUX 3

CD Buttons:

TIME – Displays Track Time/Time remaining

0-9 Buttons – Used to select track numbers

CHECK – Check pre programmed tracks

PROGRAM – Programs selection and order of tracks

INTRO – Player plays first 10 seconds of each track

REPEAT – Repeats whole disk or selected tracks

SEARCH – Fast forward/backward through track

STOP – Stop playing/Eject CD

BAND – Selects DAB or FM

STORE – Stores station as preset

SELECT – To choose preset/DAB station

PRESET ↑↓ selects preset

TUNE ↑↓ steps up/down band

VOLUME UP/DOWN – sets volume level

MUTE – Mutes unit until pressed again

DISPLAY – Dims display

CLEAR – Clears selected pre programmed track

A/B Sets repeat start/end to repeat section of track

SHUFFLE – Plays back tracks in random order

TRACK – Next/previous track

PAUSE/PLAY – Stop/start CD playback

DAB TUNER BUTTONS

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

```
BBCWorld 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

SEARCH

To update your tuner with locally available DAB stations Press the **SEARCH** button (**AUTO TUNE** on remote).

```
AUTO TUNE
QUICK SCAN
```

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

```
                        0
Searching...
```

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

```
                        1
BBC Radio 1
```

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 press the **TUNE ↑** or **↓** buttons to cycle through the list of receivable broadcasts in your area. When the required station is displayed, 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 (remote control)

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

STORE (remote control)

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

```
BBCWorld Service
BBC National DAB
```

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

```
BBCWorld Service
<Empty preset    1>
```

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

```
BBCWorld Service
Preset   1    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 control)

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, remote control)

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 (remote)

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
```

SEARCH

This button functions in a similar manner to **AUTO TUNE**, however 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, press the **TUNE ↑** or **↓** buttons 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:              FM
     Radio 1
```

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

PRESET UP and DOWN (remote control)

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

STORE (remote control)

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

```
PS:              FM
     Radio 1
```

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

```
PS:              FM
Preset  1    empty
```

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

```
PS:              FM
Preset  1    saved
```

and then revert to selected station.

```
PS:              FM
     Radio 1
```

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 control)

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 (remote control)

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, remote control)

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:

| Problem	Probable Cause	Remedy
No power / display	Power plug is not inserted into psu correctly	Plug in securely fully into power supply's **X-PLORA^{V8}** rear socket
No audio output	Insufficient DAB signal.	Check aerial. Advice: page 5 AERIAL (ANTENNA)
	Leads incorrectly connected	Check output connecting leads
	Wrong input selected on amplifier	Check amplifier connections and select correct input
Excessive background noise (hiss or crackle on FM) Audio cuts out on DAB	Position of aerial incorrect. Local signal strength insufficient.	Reposition aerial. Consider a rooftop DAB/FM aerial page 5 AERIAL (ANTENNA)
Tuner does not display FM RDS station name and/or text	Tuned station does not transmit the RDS feature	RDS information feature therefore unavailable.
	Local signal insufficient to receive RDS properly	Try repositioning the whip aerial if used. Improve the aerial.
Remote control does not work	One or more batteries fitted the wrong way round Batteries are flat Remote control is not pointed directly towards the front panel of the tuner	Insert batteries correctly Change batteries – do not mix old and new ones Ensure there is no obstruction between the remote control and player tuner
Remote control range has greatly reduced	Batteries are running out	Change batteries for a new set

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 X-PLORA ^{V8} yourself, as this will invalidate the guarantee.

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	50Ω F type connector (to VHF/L-Band diplexer)

FM Specifications

RF Frequency Range	87.5-108 MHz
RF Sensitivity	
(S+N)/N=26dB, 90MHz@22.5KHz	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 88-108MHz
	Band III 174-240MHz
	L-Band 1452-1492MHz
Gain FM & Band III	2dBi
L-Band	5dBi
Impedance	75Ω
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 36mm
	Retracted 153±10mm
	Extended 646±10mm
Mechanical Fixing	180° swivel joint on plug with locking nut
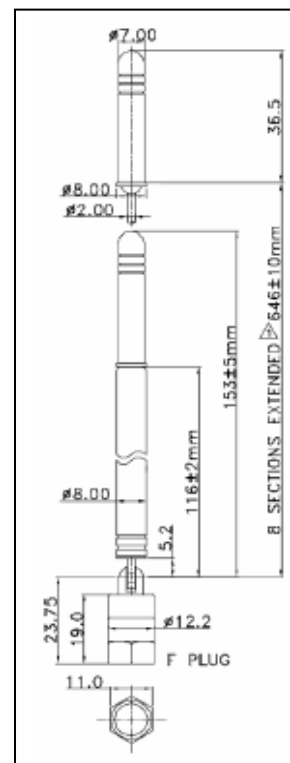
CONNECTIONS:

Digital outputs	1 optical (Toslink), 48kHz
	1 S/PDIF (RCA connector), 48Hz
Line level outputs:	1 pair RCA
Power requirement:	For use only with suitable Musical Fidelity power supply e.g. Triple-X.

Weight:

4.0 kg, 8.8 lbs	unit only, unboxed
5.25 kg, 11.5 lbs	in shipping carton

Dimensions:

219 mm, 8.6 inches	wide
88 mm, 3.5 inches	high including feet
340 mm, 13.4 inches	deep including terminals

Standard accessories:

Tri-Band Whip aerial

X-PLORA ^{V8}

RELEASE	DATE	CHANGES
Issue 1	6th September 2006	[1st release]
Issue 2	18th Ocober 2006	Added power supply wiring options
Issue 3	19th October	Improved P.7