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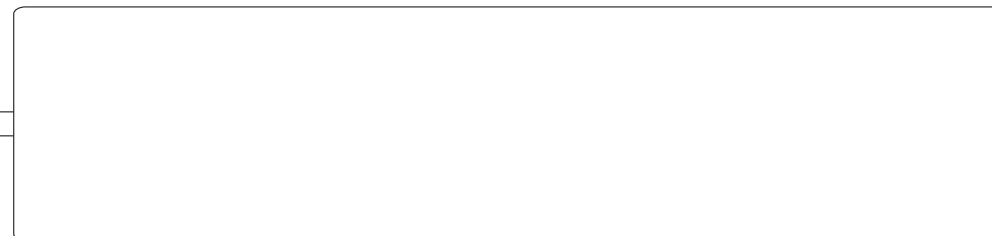
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www.myryad.co.uk

Z-SERIES

Z130 Remote Controlled FM RDS Tuner

Owner's manual

MYRYAD



130

MYRYAD

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INTRODUCTION

The Myryad Z130 has been designed to offer a combination of high quality sound reproduction and elegant styling.

It is a full-function remote-controlled FM RDS Stereo Tuner. It has fixed-level low-impedance audio outputs to feed a Myryad integrated amplifier or preamplifier, or other high quality amplifier. A coaxial antenna socket is provided for a 75Ω FM radio (Band 2) antenna.

The Z130 also has a “Smart My-Link” control input and output for communication with other Myryad Z-Series, Cameo or M-Series products.

When linked via the “Smart My-Link” to a compatible Myryad integrated amplifier or preamplifier a number of extra features become available which make the system as a whole easier and quicker to operate.

INSTALLATION AND SAFETY NOTES

This tuner generates very little heat but still requires some ventilation. Do not place it on a rug or other soft surface into which it could sink, obstructing the air inlets in its underside. Do not allow any obstruction to the ventilation slots in the rear panel. The tuner should not be installed in a built in situation such as a bookcase or rack unless proper ventilation is provided.

CAUTION: TO PREVENT A FIRE OR SHOCK HAZARD, DO NOT PERMIT ANY OF THESE PRODUCTS TO BECOME WET. IF LIQUID IS ACCIDENTALLY SPILLED ON ONE, IMMEDIATELY SHUT OFF ITS POWER AT THE WALL SOCKET AND UNPLUG THE AC POWER CORD. ALLOW SUFFICIENT TIME FOR COMPLETE EVAPORATION TO OCCUR BEFORE OPERATING IT AGAIN. IF THE LIQUID IS ANYTHING BUT WATER AND/OR ALCOHOL, A QUALIFIED SERVICE TECHNICIAN SHOULD EXAMINE THE UNIT BEFORE IT IS USED AGAIN.

DO NOT PLACE NAKED FLAMES SUCH AS LIGHTED CANDLES ON THIS PRODUCT.

Do not remove the cover, or attempt to modify or repair any item yourself. Refer all servicing to a qualified technician.

ACCESSORIES

Your Z130 is supplied with the following accessories.

- Separate mains power cord to suit country of sale.
- Remote control handset.
- Four AAA batteries for handset (not in some countries).
- Wire antenna for high signal strength areas.
- Balun (matching adaptor) for connection of 300Ω antenna.
- Balun interface connector where necessary (not all countries).

Z-SERIES SYSTEM OPERATION WITH SMART MY-LINK

When used as a linked system (e.g Integrated Amplifier plus CD Player, DVD Player and Tuner), Z-Series products have a number of extra features that make the system as a whole easier and quicker to use than a normal hi-fi. These include:

Intelligent Input Selection (Amplifier):

Press a source select button on the remote control and the system will awaken (if in standby) only the Amplifier and the selected source.

Power-Saving Mode (Amplifier):

The Amplifier will switch the CD Player, DVD Player or Tuner into standby if any source remains unused for more than ten minutes.

Automatic Switch-On (CD, DVD, Tuner):

If the standby button on the Tuner, CD or DVD player is pressed, the Amplifier will also awaken and select the correct source.

TROUBLE-SHOOTING GUIDE

Possible solutions to some of the most common problems

No sound:

- Power turned off or system in standby mode. Check that the green STANDBY LED is illuminated.
- UK version only: The fuse in the mains plug has failed. Check and replace if necessary.

Sound in one channel only:

- Interconnect cable pulled loose or making poor contact. Check and, if necessary, unplug and re-plug all relevant cables.

Loud buzz or hum:

- Interconnect cable pulled partially out of its socket.
- Defective interconnect cable.

Hiss that gets worse with STEREO reception:

- Antenna connector loose. Un-plug and re-plug connector and check cable.
- Weak antenna signal. Move wire antenna to optimize reception. If not adequate, install a loft or external antenna.
- If all else fails, switch to MONO reception.

Stereo indicator fails to light during a stereo broadcast:

- Another possible effect of a very weak signal. Attend to the antenna system as described above.

Distorted reception:

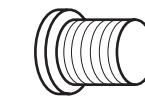
- “Multipath” reception. Rotate antenna to find the orientation that provides the best reception. Raise the height of the antenna. If all else fails, switch to MONO reception.

For further help please visit:
www.myryad.co.uk/faqs.html

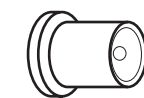
ANTENNAS

The wire antenna supplied with the tuner may provide adequate reception of strong FM signals. However, such an antenna is not very efficient at rejecting “multipath” and other

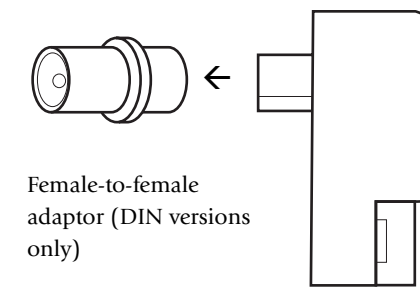
Antenna connectors and adaptors



Coaxial antenna socket (F type)



Coaxial antenna socket (DIN type)



Female-to-female adaptor (DIN versions only)

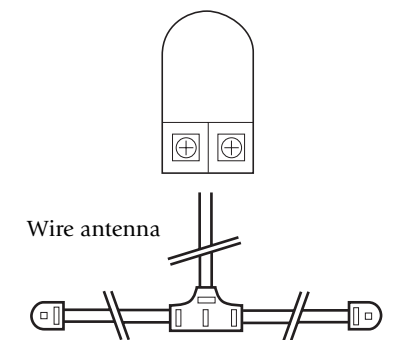
300Ω adaptor (balun) (F type is similar)

forms of FM interference. Nor can it easily be rotated to optimise its pickup pattern for best reception of stations from different directions. In most cases you will greatly improve reception by using a better antenna.

The best choice is a directional FM-only antenna, mounted as high above ground as possible. The antenna should be mounted externally for best reception, but loft mounting is a simpler alternative which is satisfactory in many locations when adequate loft space is available. The type of antenna necessary will depend upon both your distance from the transmitter and the local geography (e.g. intervening hills or large buildings).

It is also most important to pay attention to the quality of the coaxial cable used for the download from the antenna to your tuner. Avoid joins along the length of the cable and ensure that the exposed end at the antenna is properly weatherproofed against ingress of moisture. All cables lose some signal along their length and it is false economy to use cheap cable of unknown quality. Always specify the best “low loss” coaxial cable.

The above notes are for guidance only. It will usually be best to consult a local specialist aerial/antenna contractor who will have knowledge of local reception conditions. Your Myryad dealer may also be able to offer advice.



SPECIFICATIONS

Z130 FM RDS Tuner

Usable sensitivity (IHF mono)	1.5µV
Signal/noise ratio	80dB (mono) 74dB (stereo)
THD (1kHz)	0.1% (mono) 0.2% (stereo)
Frequency response (20Hz - 15kHz)	±0.5dB
Stereo separation (1kHz)	45dB
Dimensions (w x h x d)	436 x 78 x 300mm
Weight (net)	4.73kg
Supply voltage (set by internal wiring)	120 or 230V
Finish	Natural Silver fascia with Silver Grey casing/Satin Black fascia with Black Casing.

Stock No: OST0012130
Revision: A

Alarm on/off (ALARM ON/OFF)

Use this option to enable/disable the alarm. When the alarm setting option (above) is used, the alarm is automatically set to ON. To disable (or enable) the alarm, select this option and use the TUNE buttons to choose off (or on) and then press SELECT. This procedure allows the alarm to be turned on or off without having to reset the alarm times.

Clock set (CLOCK SET)

Use this option to set the clock. The procedure is exactly the same as for setting the Alarm time – using the SELECT and TUNE UP/DOWN buttons. If you tune to an RDS station which broadcasts a time code, the tuner will set the time precisely using the RDS data.

However please note that the RDS clock set facility may not be available in all countries.

Memory Clear (MEMORY CLR)

Use this feature to clear unwanted preset stations from the memory. Press SELECT to choose memory clear then use the TUNE buttons to cycle through the three available options:

- CLEAR ONE – clears the currently selected preset
- CLEAR ALL – clears all preset information from the memory and leaves preset 1 tuned to 98.55MHz.
- FACTORY SET – returns the unit to the default factory settings. This option includes clearing all preset information and leaves preset 1 tuned to 98.55MHz.

When the desired option has been selected, press SELECT again to execute the chosen Memory Clear operation.

9 Mono

When the MONO button is pressed the tuner is locked into MONO reception mode and the STEREO indicator will not illuminate, whether the tuned station is transmitting in stereo or mono. The green LED next to the MONO button will illuminate to indicate this mode. If noisy reception is experienced in stereo mode, pressing the MONO button will usually result in a dramatic improvement in sound quality.

When a station is stored as a preset (see below) the MONO status is also stored, and will therefore be recalled whenever that preset is accessed.

10 Store

The STORE button is used when storing the preset station frequencies. The procedure is as follows:

- Tune to the desired station using either MANUAL or SEARCH tuning mode, and set to MONO if required.
- Press the STORE button to enter STORE mode, which illuminates the green LED next to the button. The display will automatically change to Preset mode at the last used preset number.
- If the station is to be stored at a different preset number, press the TUNE UP or TUNE DOWN button until the desired preset number is reached, otherwise move directly to the next step.
- Press the STORE button again to store the frequency at the preset number displayed. The tuner will then automatically return to the previous tuning mode ready to tune the next station and the STORE LED will be extinguished.

STORE mode can be exited by pressing the MODE button. The preset station data is stored in a permanent memory. The information is retained when the tuner is switched off.

SYSTEM REMOTE HANDSET OPERATION

The Z130 Tuner is supplied with a System Remote Handset, which can also be used to control the Z140 Integrated Amplifier and Z110 CD Player.

The System Handset keys allocated to control of the tuner are as follows:

Preset, Manual and Search

These keys allow direct access to any of the three tuning modes (see front panel MODE button).

Tune up and tune down

These keys operate exactly as the front panel TUNE UP/DOWN buttons.

Mono and store

These keys operate exactly as the front panel MONO and STORE buttons.

DIM and number keys (0-9)

These keys control the tuner but only when the handset is in “Tuner Mode”. To put the handset into Tuner Mode simply press the TUNER input select key at the top of the handset. The handset will stay in Tuner Mode until the CD input select key is pressed.

Keypad 0-9

These keys allow direct access to any preset station. If a preset numbered 10 to 29 is desired, (e.g. 14) press “1”, followed by “4”. If “1” is pressed without a second digit, the tuner will go to preset 1 after few seconds. Pressing any other number key, from 3 to 9, will tune instantly to the relevant preset station.

The “0” key may be used as the second digit in the normal way to choose presets 10, 20 and so on. However, when the “0” key is pressed as the first digit it operates in the same way as the SELECT key on the front panel (see Front Panel #8 on page 5).

DIM

The display may be switched off using the DIM key. A second press will turn the display on again. The display will come on briefly if any control is used while the display is off.

Standby

Pressing the STANDBY key by itself sends the command to switch an amplifier into or out of STANDBY mode. However, if your Tuner is linked to the amplifier via the Smart My-Link then it will also be switched into or out of STANDBY.

It is also possible to switch only the Tuner into or out of by pressing and holding down the TUNER key and then simultaneously pressing the STANDBY key. This will switch the STANDBY status of the Tuner without affecting any other unit.

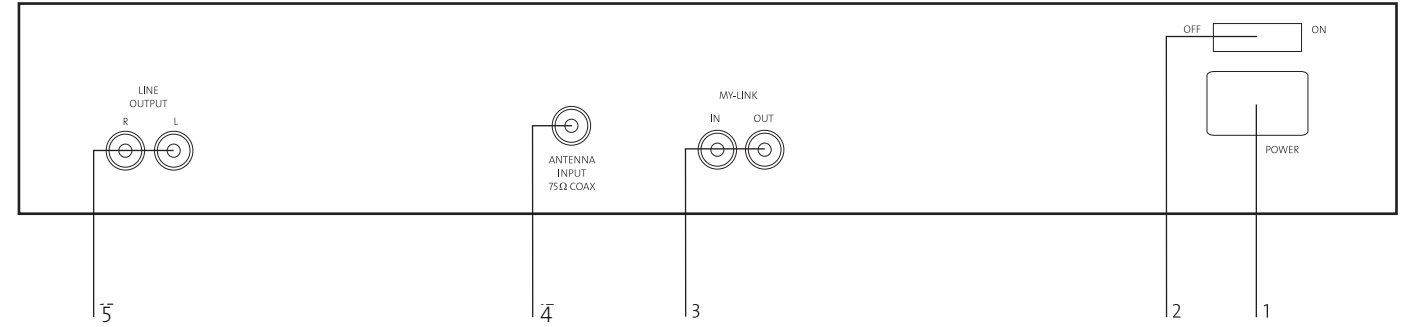
If Smart My-Link is being used the STANDBY and TUNER keys must be released simultaneously.

INSTALLING AND REPLACING HANDSET BATTERIES

The System Remote Handset uses four 1.5 V type AAA batteries. To fit new batteries first open the battery compartment in the rear of the handset and remove any existing batteries. Fit the new ones as directed by the symbols moulded inside the battery compartment, then replace the battery compartment cover.

The batteries should always be removed if they are discharged (indicated by no remote control operation or by operation only at very short range), or if the remote control is not going to be used for an extended period.

SETTING UP YOUR TUNER



REAR PANEL CONNECTIONS

1 Power inlet

Before making any connection, check that the mains voltage setting printed on the rear panel is the same as your local mains supply.

Plug the female (socket) end of one of the power cords supplied into the power inlet on the rear of each component. Plug the male (plug) end of each cord into a “live” wall socket or a suitable heavy duty extension cable.

UK version: The mains plug is supplied fitted with a 5A fuse. It should only be replaced with a fuse of the same rating (5A) which complies with BS1362.

2 Power switch

Press one side of this rocker switch (the side nearer the edge of the rear panel) to switch the tuner ON and the other side to switch it OFF. When the POWER switch is in the OFF position all power is disconnected from the tuner and it cannot be powered up from the front panel or the remote control. When the POWER switch is in the ON position (and the power cord correctly inserted and plugged in to a live wall socket) the tuner will power up in standby mode (see FRONT PANEL CONTROLS, STANDBY, below).

It is recommended that the POWER switch is turned OFF if the tuner is not going to be used for an extended period of time.

3 My-Link input/output

When this tuner is used in a system with other Z-Series (or Myryad M-Series or Cameo) products, all may be joined together via the My-Link. My-Link is a communications bus that allows all the linked components to operate together as a system and distributes the remote commands received by any one to each of the others. The simplest function provided by the My-Link bus is that all linked units will switch into or out of standby mode when the amplifier or remote control standby key is pressed.

Use a short RCA-to-RCA (phono-to-phono) interconnect cable to connect from the MY-LINK OUT socket on the amplifier to the MY-LINK IN socket on the tuner.

A second cable may then be run from the MY-LINK OUT socket on the tuner to the MY-LINK IN socket on a Myryad CD player – “daisy-chain” fashion. Further compatible Myryad products can be linked in the same way, running from the MY-LINK OUT socket on the CD player. Inexpensive interconnects may be used as the My-Link bus carries only control signals, not audio, so these cables have no effect on sound quality.

When Myryad products equipped with “Smart My-Link” are connected via the My-Link bus, many more powerful system features are available (see page 7).

4 Antenna input

The tuner is fitted with a 75Ω “coaxial” antenna socket, which must be used with a 75Ω antenna (aerial). The tuner is supplied with a simple wire 300Ω antenna together with an impedance matching adaptor. This antenna is provided to ensure that the tuner can be set up and used straight “out of the

box”. It is not adequate to provide full performance from the tuner except in areas of particularly high signal strength (e.g. close to the FM transmitter). In most instances a good quality roof or loft mounted FM antenna should be used – see page 7.

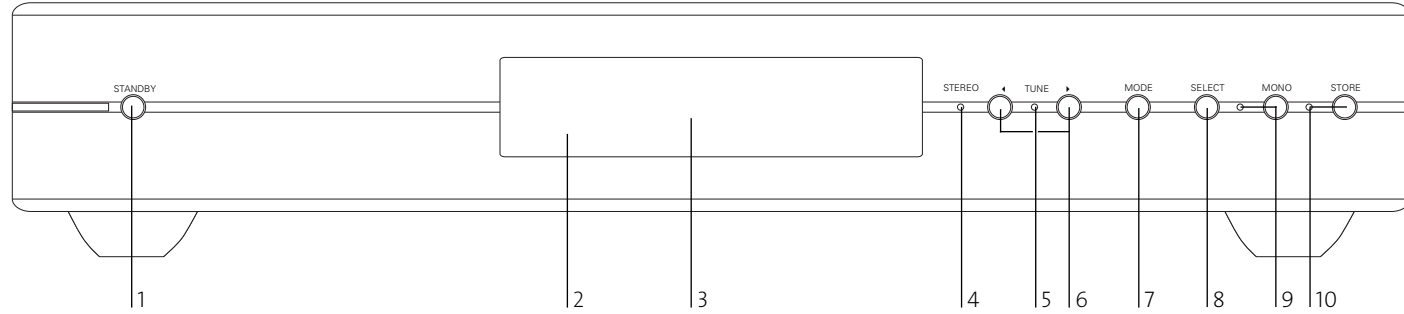
The tuner has different coaxial antenna sockets to suit different countries. “North American” models are fitted with “F” type coaxial connectors while models for most other countries are fitted with “DIN” style connectors. When using the 300Ω wire antenna the matching adaptor (or balun) must be used and “DIN” versions also need to be fitted with the adaptor supplied. See the illustrations on page 7 for clarification.

When you unfold the wire antenna you will note that it is in the form of a “T”. The “crossbar” portion of the T should be stretched out horizontally and tacked in place, either on a wall or the back of a cabinet, or on the ceiling. The “vertical” section of the T goes to the tuner’s antenna input via the balun. Experiment with the position and orientation of the antenna to obtain the best reception.

5 Line outputs

These outputs should be connected by high quality audio interconnects to the TUNER or other “Line” inputs (e.g. “AUX”) of any integrated amplifier or pre-amplifier. Never connect to an amplifier’s PHONO inputs.

OPERATING YOUR TUNER



FRONT PANEL CONTROLS

1 Standby

When the tuner is plugged into a live wall socket and the POWER switch is turned ON, it will power up in "standby" mode and the LED (Light Emitting Diode) by the STANDBY button will glow red. In this mode the internal circuitry is powered up, but disabled so that it consumes very little power and the audio outputs are muted by a relay.

When the STANDBY button is pressed the circuitry is activated and, after a few seconds delay, the audio outputs will be enabled. During this delay period while the internal circuitry is settling the STANDBY LED will flash green. When the outputs are de-muted it will glow green continuously. When the STANDBY button is pressed again the component will be returned to standby mode, the STANDBY LED will glow red again and all other LEDs and the display will be extinguished.

CAUTION: WHEN IN STANDBY MODE THE INTERNAL CIRCUITRY IS STILL LIVE, SO ALL SAFETY PRECAUTIONS MUST BE FOLLOWED.

2 Infra-red receiver

The infra-red (IR) remote control receiver is mounted behind this window in the position indicated. It must therefore not be obscured when the component is to be operated using the remote control handset. Where possible it is best to arrange that the IR window is in "line-of-sight" of the remote handset. When components are connected via the Smart My-Link bus, only one needs to receive the IR command signals in order to control any of the linked units.

3 Display

The operation of the tuner is indicated on a high quality green Vacuum Fluorescent Display.

4 Stereo indicator

This green LED is illuminated when a stereo broadcast is being received and the tuner is not switched to MONO mode.

5 On tune indicator

This green LED is illuminated when any FM signal, above a very low threshold, is received and is ON TUNE.

6 Tune up and tune down

These buttons are used to set the frequency in MANUAL, PRESET and SEARCH modes. The function of the buttons is determined by the mode selected (see below), but in all modes, pressing the right hand button will perform an incremental operation and the left hand button a decrement.

7 Mode

The MODE button is used to change between PRESET, MANUAL and SEARCH tuning modes.

Preset tuning mode

When PRESET mode is selected the tuner will go to the frequency of the last used preset station and the display will show the tuned frequency and the preset number (see Figure 1). When the TUNE UP button is pressed it will tune to the preset stored with the next higher number while pressing the TUNE DOWN button will move to the next lower stored preset. The tuner will skip preset positions that have not been programmed, e.g. if station 3 is not programmed, the tuner will skip from station 2 to station 4. If the tuner is stepped beyond the highest number preset stored, it will "wrap-around" and step back to the lowest numbered preset.

Preset display mode (Figure 1)

P 6 98.75

Manual tuning mode

When MANUAL mode is selected the display shows the tuned frequency, together with a Signal Strength indication (see Figure 2). When the TUNE UP button is pressed briefly the tuned frequency will increase by 50kHz. Holding the button down will cause the tuner to scan continuously up the frequency band. In a similar way, pressing TUNE DOWN will decrease the tuned frequency or scan down the band. Correct tuning can be obtained either by setting the correct frequency, if it is known, or by tuning until the ON TUNE indicator illuminates – which indicates accurate tuning. Once a station is tuned, its frequency may be stored as one of the Presets if desired (see page 6).

Manual display mode (Figure 2)

SI 4 93.50

The signal strength indicator will display a number from 1 to 8, preceded by the letters "SI". A signal strength of "-" indicates no signal, whilst a signal strength of 8 indicates a very strong signal. Normally an indication of 4 or 5 is necessary for a useable signal in stereo, while a figure of 6 or 7 should ensure that lowest noise reception is obtained in stereo. If the signal strength of a station tuned in Preset mode is required, simply switch to Manual mode after tuning. A Signal Strength reading of 5 or below indicates that improved sound quality might be achieved by improving the antenna system.

Search tuning mode

When SEARCH mode is selected the display shows the tuned frequency, together with SC "n" where "n" is the signal strength (1 to 8). When the TUNE UP button is pressed the tuner will commence searching for FM stations at frequencies higher than the start point and the display will change to SCH during search (see Figure 3). If the TUNE DOWN button is pressed the tuner will search lower frequencies. When the first station of adequate strength is detected, the tuner will stop searching, the display will return to SC "n" to show the signal strength and the ON TUNE indicator will illuminate. Once the station is tuned, its frequency may be stored as one of the Presets if desired (see page 6), or the search initiated again by pressing the desired TUNE button. Searching may be stopped before a station is found by pressing the TUNE button in the opposite direction to the current search, or by pressing the MODE button.

Search display mode (Figure 3)

SCH 103.50

8 Select

The basic tuner functions (tuning and mode controls for example) are all directly available, both from the front panel buttons and the remote handset. In order to access all features however, it is necessary to use the menu system.

To enter the menu system, press the SELECT button on the front panel or the "0" key on the remote handset. The display will change to show "CONTROL MENU". Use the TUNE-

UP and TUNE-DOWN buttons to cycle through the list of features before pressing SELECT (or "0") again to make your choice.

You may exit the menu system at any time without selecting an option by using one of the following methods:

- press '9' on the remote handset key pad,
- press Select while the display shows, "CONTROL MENU"
- wait for the menu to time-out after about 15 seconds.

In all of these cases, the display will revert to the previous mode operation.

NOTE: THE MENU CANNOT BE ACCESSED WHILE THE TUNER IS IN STANDBY OR DURING THE 5 SECOND START-UP PERIOD WHEN SWITCHING THE UNIT OUT OF STANDBY.

The features available via the menu system are:

Station name (Display will show: STN NAME)

Use this feature to display the name of the station currently tuned. Press SELECT on this option and then use the TUNE buttons to choose Station Name on or off. Then press SELECT again to activate/deactivate the Station Name feature. This feature can be switched off by selecting Control Menu-Stn Name-Off or by turning on another feature (i.e. programme type, programme type search or traffic search).

Programme type (PRG TYPE)

Use this feature to display the programme type of the currently tuned station (e.g. News, Pop/Rock, Drama etc.). Press SELECT on this option and then use the TUNE buttons to select on or off. Then press SELECT again to activate/deactivate the Programme Type feature. This feature can be switched off by selecting Control Menu-Prg Type-Off or by turning on another feature (i.e. station name, programme type search or traffic search).

NOTE: "STATION NAME" AND "PROGRAMME TYPE" ARE NOT DISPLAYED WHILE THE TUNER IS IN SEARCH MODE OR WHILE A PRESET IS BEING PROGRAMMED.

Programme Type Search (PRG TYPE SCH)

Use this feature to search for a station broadcasting the chosen type of programme. Press SELECT on this option and then use the TUNE buttons to select the desired programme type (e.g. News, Pop/Rock, Drama etc.). Then press SELECT again and the tuner will mute and search until it finds the desired programme type or until the search is cancelled by the user. Cancel the search by pressing the SELECT or MODE buttons on the front panel or by pressing and

holding briefly the "0" or a tuning mode key on the remote control. When a station broadcasting the desired programme type is found, the tuner will stop searching, de-mute and change to manual tuning mode. The display will then show the programme type.

Traffic Search (TRAFFIC SCH)

Use this feature to search for a station broadcasting a traffic announcement. Press SELECT on this option and the tuner will mute and search until it finds a traffic announcement or until the search is cancelled by the user. Cancel the search by pressing the SELECT or MODE buttons on the front panel or by pressing and holding briefly the "0" or a tuning mode key on the remote control. When a traffic announcement is found, the tuner will stop searching, de-mute and change to manual tuning mode. The display will then show "TRAFFIC". When the traffic announcement is finished, the unit will resume its search.

Display time (DISPLAY TIME)

Use this option to display the current time. The time will be displayed for a short period before the display reverts to its previous mode.

Alarm set (ALARM SET)

Use this feature to set the on and off times of the alarm. Press SELECT to choose this option then use the TUNE-UP and TUNE-DOWN keys to set the minutes part of the alarm on time (display will show "MN ON XX.YY" where XX is the hours and YY is the minutes). Press SELECT to confirm that the minutes are correct then use the TUNE buttons again to set the hours (display will show "HR ON XX.YY"). Then press SELECT to confirm the hours. The alarm off time may then be set using the same procedure. When the Alarm off time has been set, use the TUNE buttons to choose between using the tuner or CD player as the source when the alarm is activated. If you choose tuner, it will switch to the last tuned frequency when the alarm-on time is reached. If you choose CD player, ensure that a disc is in the CD player as this will be played when the alarm-on time is reached.

Once set, for example as a wake-up alarm, the system should be switched into standby. When the alarm-on time is reached, the amplifier and the tuner/CD player will be switched out of standby and the chosen programme will be heard. Please ensure that the amplifier volume is appropriately set. When the alarm off time is reached, the amplifier and tuner/CD player will be switched back into standby.