Operation manual

MuSiCa NoVa

PAndorA

Table of contents

This unit is a sophisticated AM/FM RDS stereo tube tuner. To ensure proper operation for the best possible performance, please read this manual carefully.

1 Setup and connection

1.1 Precautions and safety instructions

Choose the installation place of your unit carefully. Avoid placing it in direct sunlight or close to source of heat. Also avoid locations subject to vibration and excessive dust, heat, cold or moisture. Keep it away from such sources of hum as transformers or motors.

You will hear that PAndorA sounds best after about two hours after switch-on, so we recommend to switch off your PAndorA only if you don't want to use it for a longer period (e.g. for more than one day).

1.2 Mains connection

The voltage selector ㉔ on the rear panel of this unit must be set for your local voltage before plugging in the AC mains supply. The fuse of this unit is located in the fuseholder ㉒.

1.3 Amplifier connection

Connect the **tubed output** ㉑ jacks of PAndorA to your amplifier by means of a high quality NF-cable with RCA-connectors.

1.4 Antenna setup

To get the best reception quality, it is recommendable to use a high quality antenna system.

This unit contains two 75-ohm coaxial cable connectors for FM: Connect your outdoor FM-antenna to **Antenna** ⑯ and/or your CATV to **Cable** ⑰. With the switch **ANTENNA/CABLE** ⑮ you can select the input.

If you want to use an AM loop (not included) or outdoor antenna, you have to connect the antenna cords to the **AM ANTENNA** ⑱ terminal.

2 General operation

2.1 Softstart

Press the **Power** ① switch to turn the power on. Press again to turn the power off.

Whilst *warm up*, the operation mode indicator (LED) ㉓ flickers with red light. In this mode the tubes are gently preheated for operation. After about 25 seconds the LED stops flickering, and the operation voltage (high voltage!) is added. After about 25 further seconds the operation mode indicator ㉓ changes to green, if a signal of sufficient signal strength is received. Now the tuner is in its' normal operation mode. This softstart circuitry increases the lifetime of the tubes dramatically.

Note: The LED won't turn to green as long as no signal is received!

2.2 Adjustment to antenna

When the reception signal is very strong (as CATV), use the **CABLE** ⑰ input. This input is less sensitive to decrease the RF cross modulation and intermodulation. The Display ㉙ informs you about the settings.

2.3 FM/AM selection

Select the reception band (FM or AM), by pressing the **fm/am** ⑪ button.

The display ㉙ informs you about the settings.

2.4 Auto tuning

If signals are strong and there is no interference, quick automatic search tuning is possible. Press the **tune ▲** ⑫ or **tune ▼** ⑬ button until the tuning starts. The tuning will automatically stop at broadcast station frequencies with a sufficient signal strength. After starting auto tuning the operation mode indicator will turn to red, when auto tuning stops it will turn to green again.

A signal quality indicator on the display informs you about the level of the received frequency. The more bars you see, the better the signal quality is. The frequencies are displayed in kHz (AM) or MHz (FM).

If auto tuning stops, the AUTO COMPARE function checks, whether this frequency is already stored. If it is stored, the preset number and the stored name will be displayed. If the station where tuning stops is not the one you want, press the **tune ▲** ⑫ / **tune ▼** ⑬ button again.

2.5 Manual tuning

Press the **tune ▲** ⑫ / **tune▼** ⑬ button intermittently until the desired frequency is reached. The frequency moves up/down by steps of 25kHz (FM)/1kHz (AM). While searching, the output is muted (red LED ㉓).

The triangle in the display indicates the optimum reception point. Here the AUTO COMPARE function also works as described at 2.4.

2.6 Direct frequency input

If you know the frequency of the wanted broadcast station and if you possess a remote control transmitter, you are able to enter the frequency directly.
Select the wanted reception band (FM or AM **fm/am** ⑪). Press the F/DIRECT ④ button on the RC-transmitter (Option).

The following information is displayed:
FM   ------- MHz
AM   ------- kHz

Enter now the desired frequency from the left to the right, using the numeric buttons ① of the remote control transmitter. Entering the last number, the new station will be received.
From the start you have about 5 seconds time for each figure to enter. Otherwise the unit will go back to normal operation.

2.7 IF – mode selection

When the reception signal is weak or when the desired station is interfered with adjacent stations, you can use the **if mode** ⑩ selection to increase the selectivity (NARROW). When the reception signal is strong press the button ⑩ again (WIDE) to obtain the distortion-free sound.
The display ㉙ informs you about the settings.

2.8 FM – reception mode

Normally the unit is in the stereo mode. If a broadcast station with a sufficient signal strength is received, STEREO lights up in the display. When the signal gets weak and the stereo reception is interfered, STEREO disappears but MUTING still gleams, so that any jamming is suppressed.

When stereo longdistance reception is interfered, you have the possibility to switch to mono reception. Press the **MONO** ⑭ button and **MUTING** disappears in the display while MONO lights up.

2.9 Station memory

You have the possibility to store 59 broadcast stations.

If you have tuned the station you want to store, press the **memory** ② button. The station will be stored on the next free preset.
If 59 stations are stored, the display will announce MEM FULL for about 1.5 seconds.

If all desired stations are stored, you have the possibility to change their sucession (e.g. your favorite on preset 1).

2.10 Preset storage

If you want to store a station, press the **memory** ② button. The first station will be preset 1, the second preset 2 and so on. If you want to displace a preset, press the **memory** ② button, and the station will be shifted to the next free preset and so on. If you keep the button pressed all free presets will be scanned one after the other. The former preset will be cancelled.

2.11 Preset tuning

If you want to call a preset, press the station ⋀/⋁ ⑧② /⑨③ buttons. The presets will be scanned in ascending ⋀ ⑧② or descending ⋁ ⑨③ succession.
The presets also can be selected via remote control transmitter (optional accessory). Press the station ⋀/⋁ ② /③ buttons or enter the preset number 0...9 ① on your transmitter directly:
For presets of one place press the corresponding button just for a short moment.
For presets of two places e.g. 29 press 2 for a longer period and then press 9.

If you have selected a preset that was still free, FREE will be announced for a short period, then the unit switches back to the last tuned frequency or preset. The display informs you about the selected preset on the left side.

2.12 Preset cancel

At first you have to select the preset to be cancelled.

Then press the **cancel** ③ button and the station will be deleted. If you want to delete all presets, keep the **cancel** ③ button pressed for about ten seconds (after about five seconds ERASE ? will be announced at the display - nothing happened 'til now, only if you keep pressed another five seconds, all presets will be deleted).
Now the frequency 87,5 MHz will be displayed.

2.13 RDS (Radio Data System)

This unit is capable to read and display RDS-informations (radiotext, RDS-clock, station name, program type), coming along with the broadcasting signal. Program-names will automatically be stored with the frequency. Manually entered station names will be overwritten.

2.14 Radiotext

Some RDS-broadcasting stations are transmitting RADIOTEXT, an additional information belonging to the station or current program.
RADIOTEXT appears as moving message on the display. It will last a few seconds until the whole information for radiotext is transferred.

Press the **dsp mode** ⑥ button several times until the radiotext appears. If no radiotext is transferred, for 1.5 seconds NO TEXT will be displayed, after that the stationname reappears.

2.15 RDS-clock

Some RDS stations transmit the current time. To call the time display press the **dsp mode** ⑥ button several times until the current time appears.

If there is a time information transmitted, the time display will be updated once a minute.

2.16 Program-type (PTY)

RDS makes it possible to select FM stations by means of program types (PTY). There are 16 different program types defined.

Pressing the **type** ∧/∨ ④/⑤ you are able to call the different types one after the other. The display shows for a short moment the program type and then the name of the station broadcasting the corresponding program type.

If there is no station with the desired program type, the display will show NONE, and go back to the last station you selected before.

The program types are:

NEWS - AFFAIRS - INFO - SPORT - EDUCATE - DRAMA - CULTURES - SCIENCE - VARIETY - POP M.(usic) -
ROCK M.(usic) - EASY M.(usic) - LIGHT M.(usic) - CLASSICS - MUSIC

2.17 Station names

If you receive a signal without RDS code, you have the possibility to create a name for this station. Otherwise RDS-DATA will be displayed and no input is possible.

Press the **edit** ⑦ button. By pressing the **tune** ∧/∨ ⑫/⑬ buttons you are able to move the cursor left or right. There is space for eight alphanumerical figures. Pressing the **station** ∧/∨ ⑧②/⑨③ buttons moves up ∧ or down ∨ the alphabet, the blank and the numerals from 0 to 9.

2.18 Editing the input

To edit false inputs you have to move the cursor to the position to be changed. The current figure flashes up. Now select the new figure.

2.19 Finishing the input and store

To finish and store the input you have to press either the **edit** ⑦ or the **memory** ② button.
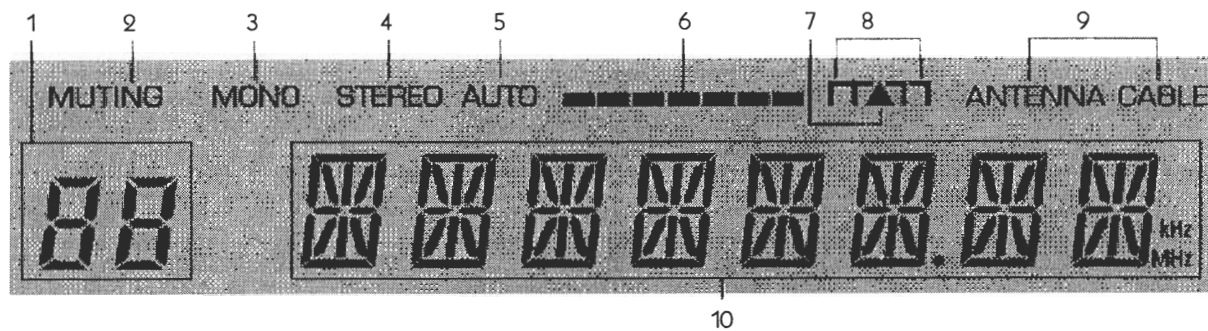
2.20 Cancel station names

Pressing the **cancel** ③ button whilst input mode deletes the name and the cursor will jump to the first (left) position again.

2.21 Display switching

Pressing the **dsp mode** ⑥ button switches the display (as available) between station name, RDS-TIME, RADIOTEXT (only when RDS is available) and frequency.

2.22 The display

1) **preset number**
2) **MUTING** (lights up, when activated)
3) **MONO** (lights up, when activated)
4) **STEREO** (lights up, when a FM stereo broadcast with a sufficient signal strength is received)
5) **AUTO** (lights up, when AUTO TUNING is activated)
6) **signal strength**
7) **exact tuning** (the triangle in the middle lights up, when the received signal is at it's best quality)
8) **IF mode** (FM: narrow/wide)
9) **ANTENNA CABLE** (indicates the selected input)
10) **alphanumerical display** (for frequency in MHz (FM) or kHz (AM), stationname (RDS-reception), self programmed station names, radiotext. RDS-clock or program type (RDS-data necessary!).

2.23 Language selection

For the display you can choose between the following languages: English, German, French, Italian, Portuguese, Spanish, Dutch and Norse.

Set the power off, then press and hold the **edit** ⑦ button. Then set the power on again. Now the current language appears in the display.

Press the **type** ∧/∨ ④/⑤ buttons to select the desired language, then press **memory** ② to store the setting.
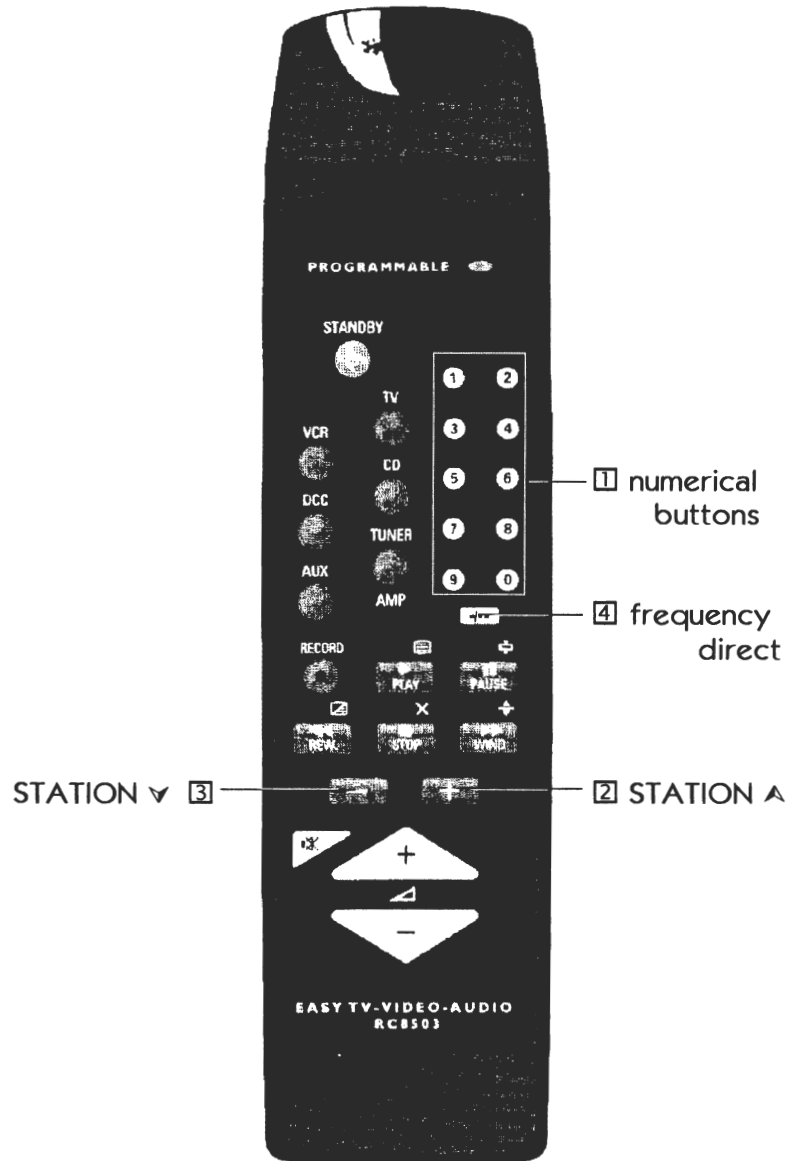
2.24 Adjusting the output level

With output level control ⑲ you may adjust the output level of this unit to the level of other components, so that there's no level difference when you switch e.g. from tuner to CD.
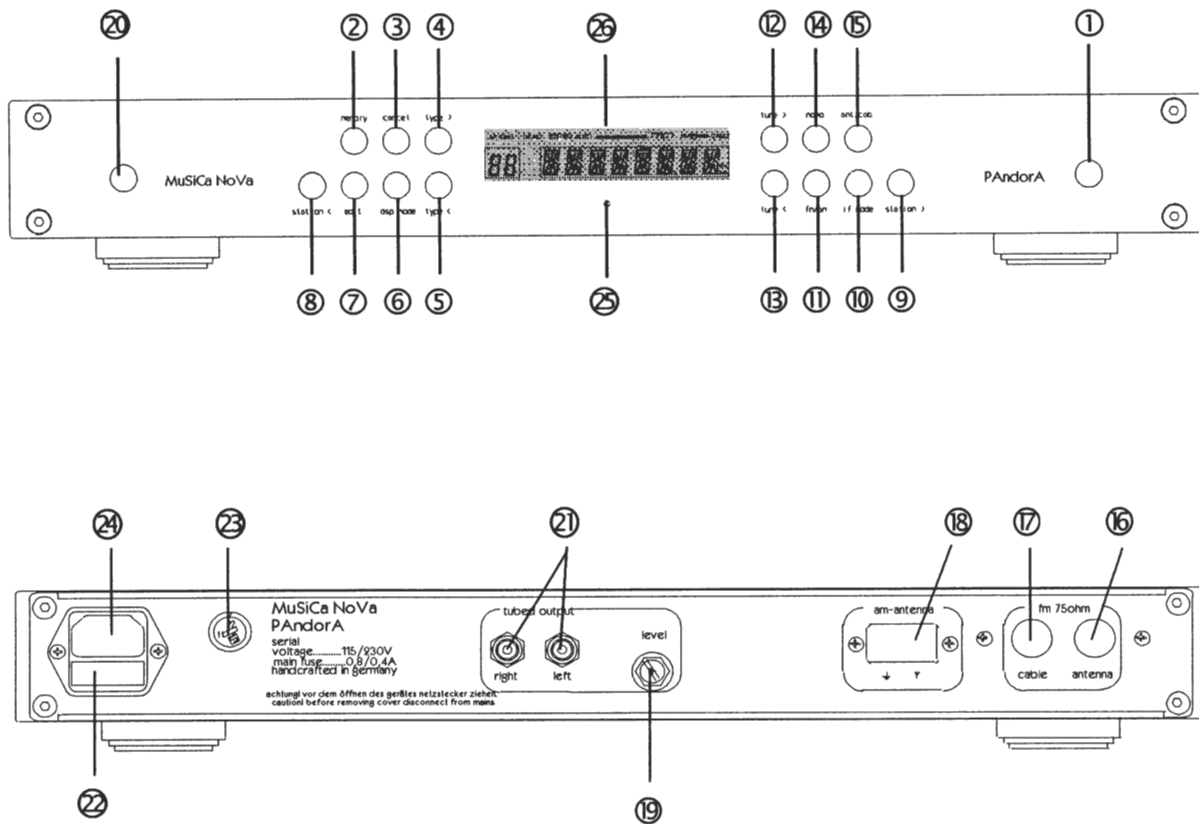
For this is a programmable remote control unit, you can use those keys, which are not used for PAndorA for programming with any other function you have on your existing remotes so far.

The commands for PAndorA are placed on the AMP / TUNER level. The markings on the remote control are essentially corresponding to the markings on your MuSiCa NoVa set (see illustration), respectively the common used symbols. Furtheron there are five levels for CD, VCR, TAPE, AUX and TV. For further information see the original manual.

STATION ∨ ③ — ② STATION ∧

① numerical buttons

④ frequency direct

① Power on/off
② Station memory
③ Cancel stations
④ Program type ⋀
⑤ Program type ⋁
⑥ Display mode
⑦ Alphanumerical input
⑧ Station ⋀
⑨ Station ⋁
⑩ IF-mode selection
⑪ FM / AM selection
⑫ Tuning ⋀
⑬ Tuning ⋁

⑭ Mono / stereo (muting)
⑮ Antenna / cable selection
⑯ Antenna input
⑰ Cable input
⑱ AM antenna terminal
⑲ Output level
⑳ Remote control receiver
㉑ Output jacks
㉒ Fuseholder
㉓ Voltage selector (115V/230V)
㉔ Mains in
㉕ Operation mode indicator (softstart & muting)
㉖ Display