# GRUNDIG

WORLD RECEIVER Yacht Boy 400

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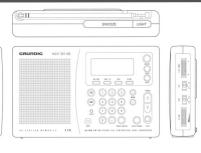
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# ON-TIME 2 A TIME 0 REEP LOOK

Optimum read-off quality will be obtained when the set is brought into a tilted position. For this, use the swing-out support at the back of the unit.

ON-TIME Wake-up time/switch-on time

If ON-TIME is indicated, the wake-up time is shown below (in the left numeric block).

88-88 Left numeric block

With radio switched on:
 Ock time indication (TIME I or TIME II).

Wake-up time indication (can be called up by pressing the O AUTO button).

Sleep time indication.
 With radio switched off: Wake-up time indication.

Battery check
When this indication appears, the batteries should be

replaced.

Tuning/field strength indication

Tuningmera strength indication
The reception quality corresponds to the length of the

Wake-up mode symbols

You can select the wake-up mode (radio 

or so

signal •) by pressing the O AUTO button.

Time I/II

You can select between two times (2 different time zones).
Indication of the respective time:

In the left numeric block with the radio switched on.
 In the large numeric block with the radio switched

off.

Sieset time

A sleep time (operating time) is entered (10, 20, 30, 40, 50 or 60 minutes).

When entering the time, it will briefly be indicated in

When this indication is visible, all buttons are locked,

the O ON/OFF button (this can further be used to switch off the radio):

switch off the radio);
– the SN00ZE button (the functions of this button are retained).

-

TIME II

7.00x

		Indication in the	c
М			
W	kHz		
SW	MHz	Indication of the	

numeric block.

က

e case of stereo broadca

Indication of the waveband (FM/LW/MW/SW) and the frequency. The associated numeric value is indicated in the large 8.8:8.8 Large numeric block
With the radio switched on: Frequency indication and

special messages (e.g., Error).
With the radio switched off: Time 1 or time 2 (e.g. 2:04).

(e.g. 2:04).
Bottom numeric block

With the radio switched off: Seconds indication.
With the radio switched on: See following description.

88 Free memory position

Indicates the number of a free memory position.

MEMORY 88 Memory position
Indicates the number of the memory position on

step 88 AM: Tuning step Indicates the width of the manual tuning steps Indicates the width of the manual tuning steps in the

AM wavebands (1, 5, 9 or 10 kHz).

Meter band indication

Indicates the number of the meter band selected.

88

88...

Front of Unit

	Multifunction display (Description see further up)		block) when the radio is switched on. For setting the wake-up time (switch-on time) (e.g., 7, 3 0 ON-TIME = 7:30).		
ON/OFF	On/eff button For switching the unit on and off. You can switch the unit off even if all buttons are locked (in LOCK position).	TIME 1/2	Time I/II For selecting between Time I and Time II. For setting and calling up the times I and III, e.g., 21. 4.0 TIME I/II or TIME I/II 21. 4.0 TIME I/II.		
SLEEP	Steep button For entering a time after which the unit is switched off (sleep time). Initial value: 60 minutes. This value is decreased in steps of 10 minutes by repeatedly pressing this but-	FREE	Free Indicates free memory positions in increasing order. Two successive pressures on this button will clear occupied memory positions (e.g., 4 FREE FREE).		
ton.  The following order is run through:  80 → 50 → 40 → 30 → 20 → 10 → Radio off → Radio on for 60 min. — 50  Short pressure on the OSLEEP button: Indication of the remaining sleep time for approx. 5 seconds in the display (left numeric block).	STORE	Store in memory You can store in memory up to 40 stations. To avoid redundant storing, first check whether it currently received station has already been stored. If the station has not yet been stored, either the nur ber of the desired memory position and store the st tion in memory by pressing the STORE button (e.g.			
AUT0	AUTOMATIC button For switching between the three function modes:  - Wake-up with radio. The display indicates r.e.  - Wake-up with sound signal glato with switched-on radio). The display indicates 4.  - Wake-up indicates 4.  - Seconds 1-2.  - Sec		1.3 STORE). If the selected memory position is not free, the indi- cation will flash for approx. 5 seconds. The memory position will not be overwritten.		

ON TIME

Switch-on time

For calling up the wake-up time (in the left no

Two pressures on the button will overwrite occupied memory positions (e.g., 23 STORE STORE): The selected memory position is overwritten and occupied by the station currently tuned to.

#### VHE

EM

For selecting the desired FM (VHF) band. You will hear the last station tuned to in this waveband (Last Station Memory). For clearing incorrect numeric entries.

#### AM

For switching to the AM wavebands. Repeated pressures on this button will select the wavebands in the following order: LW – MW – SW – LW – MW – etc. You will hear the station last received in the respective waveband (Last Station Memory). For clearing incorrect numeric entries.

T For clearing all stored data (memory positions, clock time).

For resetting an eventually blocked keyboard (e.g., after staffic charmes).

Key lock
For locking all keys except the
ORNOFF button (for switching off) and the

SN00ZE button.

### Numeric buttons and decimal point For direct numeric entries.

Two pressures on this button will clear incorrect numeric entries. FREQUIAMETER For entering frequencies

(e.g., 1 0 7 . 7 FREQU / METER = FM 107.7 MHz). For entering meter bands (e.g., 1 3 FREQU / METER = 13 m).

MEMO ▲ For calling up the memory positions 1 ... 40 (e.g., 2 0 MEMO ▲ = call-up of memory position 20). Press once: Next higher memory position. Press and keep pressed longer than 1 s: <u>Automatic</u>

Press and keep pressed longer than 1 s: <u>Automatic</u> memory <u>sootions</u> selection in ascending order. The automatic memory goodinot select function stops for approx. 5 seconds on each memory positions so that the station received on it can be checked. A further pressure on the MEMO <u>A</u> button will terminate this functions.

MEMO ▼ For calling up the memory positions (as with ME-MO A).

Press once: Next lower memory position.

Press and keep pressed longer than 1 s: Automatic memory position selection in descending order for approx. 5 seconds on each memory position so that the station received on it can be checked. A further pressure on the MEMO ▼ button will terminate

TUNING A/▼ For manual step-by-step tuning in direction of

higher or lower frequencies. Keep button pressed: Frequency scan up or down.

For selecting the manual tuning steps (the respective waveband must have been selected). LW 1 kHz or 9 kHz

SW 1 kHz or 5 kHz MW 1 kHz or 9 kHz resp. 10 kHz For selection the tunion sten 9 kHz or 10 kHz in the

ON/OFF button. AUTO TUNING Automatic station tuning

MW band, the unit must be switched off with the Press briefly: Automatic station tuning in direction of Keep pressed longer then 0.5 s: Automatic station tuning in direction of lower frequencies.

Ton of Unit

Telescopic aerial for FM and SW recention

SNDOZE Snooze button Press once to switch off the radio or the alarm func-

tion after wake-up. After five minutes, the wake-up function will be repeated (sound signal or radio). Keep pressed the button longer than 2 seconds to switch off the wake-up function. The function will be retained for the following day(s)

If the SNOOZE button is not pressed, the sound signal will sound for 5 minutes or the radio play for 60 minutes. After that, the respective function will be switched

LIGHT Display illumination

> Press this button to illuminate the display. After seconds, the illumination will automatically be swifched off. The duration of the display illumination will be increased if any other button will be pressed within this

10-seconds period. A pressure on the O LIGHT button will immediately switch off the display illumination.

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# Right Side of Unit

FINE TUNING Fine tuning For fine tuning on SSB reception.

SSW on/off switch

For switching on and off the SSB mode (Single Side SSB is especially used for amateur SW radio recep-

Tone control

Two positions: HIGH (treble) and LOW (bass). Volume control

Left Side of Unit

**VOLUME** 

SW EXT.ANT Seeket for external serial Agrial connection for SW recention. For external serial with 3.5 mm ø jack plug.

DX/LOCAL Sensitivity switch Normal position is "DX" (distant reception). If the signal is too strong resulting in reception inter-

ferences, set the switch to "LOCAL". STEREO MONO On FM: Mana/stereo switch

WIDE NARR On AM: Wide/sarrow switch. In the FM waveband, this switch is used to select

between mono and stereo reception.

In the AM wavebands, the same switch is used for changing the bandwidth.

Headohone/earphone socket For headphone or earphone with lack plug of 3.5 mm g (32 Ohm impedance). Connecting a headphone disconnects the built-in loudspeaker.

For this reason, the headnhone must be disconnected if you wish to be woken up by the radio. FM stereo reception is only possible with headpho-DC sorket

For connecting a commercial plug-in mains unit with coaxial plug (outer diameter 5.5 mm, inner diameter 2.1 mm: nutnut voltage 9.0 V=: mains voltage 230 V ... 50/60 Hz: neutral conductor connected to earth +-G--).

#### Rear of Unit

Swing-out support Swing out this support to bring the unit into a tilted

On the support there is an illustration showing the

time zones of the earth. Below the support there is the type plate of the unit. Battery compartment

For six 1.5V batteries (IEC LR6. UM-3).

# Aerials

#### Telescopic aerial

for FM and SW reception.

When the aerial base is completely retracted, the telescopic aerial can be tilted and swivelled into the position giving best reception.

For SW reception, fully extend the aerial and position it vertically.

Due to the much better propagation conditions in the evening and night hours with respect to daytime reception, interferences may occur during these hours.

These interferences can be reduced by partially pushing in the telescopic aerial.

Please note: Touching the telescopic aerial will affect the FM and SW reception quality.

#### Ferrite rod aerial

for MW and LW reception (built-in).

Turn the unit about its vertical axis to find the position giving best reception.

# **Power Supply**

### Mains Operation

Only use a mains unit with the correct output voltage of 9V = and cor-

rect polarity +-0--Connect the mains unit to the DC 9V socket. This disconnects the serted hatteries

No responsibility can be accepted for damage due to incorrect mains operation Remove the batteries if you intend to operate the unit permanent-

# ly on the mains! **Battery Operation**

with six 1.5 Volt batteries, type IEC LR 6 / UM-3/AA.

We recommend the use of alkaline-manganese batteries with low mercury percentage or no mercury at all. Disconnect the plug of the mains unit from the DC 9V socket.

Open the cover of the battery compartment (at back of unit). Insert batteries with correct polarity (see scheme above battery com-

Observe correct order of batteries when fitting them.

#### **Battery Check**

When the batteries get weak, the indication [BATT.CHECK] will flash in the display

When the radio is switched on, it will switch off after a short time.



Remove exhausted batteries immediately from the unit! If the unit is not to be used for long periods, also remove new batte-

No responsibility can be accepted for damage caused by leaking bat-

### Protect the Environment!

On not throw exhausted batteries in the household wastel When buying new batteries, hand over the old ones to your radio dealer or a special collecting point.

### **Power Supply**

#### Data Protection (Mains and Battery Operation)

The data stored in the station memory, the clock time, and the Last Station Memory are retained for approx. 10 minutes. You can calmly exchange the batteries without being afraid of loosing the stored data.

#### RESET Button

If, due to external interferences (caused by static charges of carpets, thunderstorms, etc.), the control electronics of your fyaith Boy 400 should receive beal information signals, or if no entries at all are possible, press the ○ RESET button. This is to be found between the ○ AM and the ○ LOCK button.

For pushing this button, it is best to use a bent-up paper clip.

This releases the <u>RESET</u> impulse which in turn resets the unit to its initial programming state.

The stored data for the individual <u>station memory positions</u>, the <u>clock</u> <u>time</u> and the <u>last station memory</u> is cleared.

When the power supply is interrupted, the stored stations and menu options are retained for approx. 10 minutes.

# **General Operation**

For convenient operation, your Yacht Boy can be brought into a tilted position by the swing-out stand provided at its rear.

The type plate is to be found below this stand. On the stand, there is an illustration showing the time zones of the

world.

#### **Button pressure times** Brief: less than 0.5 seconds.

nor more than 0.5 seconds.

#### Switching On/Off and Locking

To switch the unit on and off, press the O (ON/OFF) button (with the LOCK not being activated, see below).

# Locking LOCK in display).

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With the unit being switched on or off, you can lock the function buttons at the front of the unit by pressing the O LOCK button. The buttons are thus protected against inadvertent operation (indication

To unlock the buttons, press the LOCK button once again.

#### Direct Entries

For entering numeric values, use the numeric buttons. These values

Frequencies, station position numbers (programming and calling up). SW meter bands, clock times, and switching times. For each data entry (pressure on a button), you dispose of up to approx. 5 seconds. When this time has elapsed, you must re-enter the whole

To immediately correct bad entries which have not yet been concluded, press the FM or AM button, or press twice the "." button (decimal point) of the numeric buttons. If you should make a bad entry or operation, the error message

Eccor will appear in the display.

### Display Illumination

Pressing the C LIGHT button switches on the display illumination

If you press a button of the unit, this illumination time will be increa-

If you wish to immediately switch off the display illumination, press the LIGHT button once again.

# **General Operation**

### Volume and Tone

The volume

#### is adjusted with the VOLUME control.

The tone is adjusted with the TONE switch.

#### LOW = Bass. HIGH = Treble.

IGH = Treble.

### Wavehand Selection

After switching on the unit with the O ON/OFF button, it is ready for reception and you hear the station last tuned to.

FM
The FM (VHF) band is selected with the O FM button.

AM
The AM hands are selected with the O AM hutton

The first pressure on the O AM button switches to the station last

Each further pressure on the  $\bigcirc$  AM button steps through the AM bands in the order

 $LW \rightarrow MW \rightarrow SW \rightarrow LW \rightarrow MW \rightarrow etc$ 

and you will hear the station last tuned to in the selected band.

# Station Tuning

Switch the unit on with the O ON/OFF hutton The display indicates the frequency tuned to - on EM in MHz, and on

Frequency Tuning in the FM Band

AM in kHz. Select the FM hand

You hear the station last tuned to in the FM hand

Manual tuning Tune to the desired station by briefly pressing one of the buttons

O TUNING ▲ or TUNING ▼ Each button pressure will change the frequency by 50 kHz. If the O TUNING ▲ or TUNING ▼ button is kent pressed, the frequency range will be sanned in 50 kHz steps at high speed until the respective button is released.

Automatic tuning (AUTO TUNING)

This frequency search is started by pressing the O AUTO TUNING

Short presssure: Search is started in direction of higher frequencies. Long pressure: Search is started in direction of lower frequencies. The search function operates with 50 kHz steps.

thy of reception (of a signal strength sufficient for good reception). It then can be restarted with the O AUTO TUNING button (brief or long nressure)



### Frequency Tuning in the AM Bands

Select the AM range.

You will hear the station last tuned to in the respective AM hand.

Selecting an AM band

Press the O AM button repeatedly until the desired AM band is selected. This is indicated in the display. Each pressure on the button steps through the AM band in the order

I W -> MW -> SW -> I W -> MW -> etc

# Station Tuning

#### Adjusting the tuning steps

The tuning steps are adjusted with the O STEP button.

With the unit switched on, you can switch between:

1 kHz or 9 kHz on LW

1 kHz or 5 kHz on SW

1 kHz or 9 resp. 10 kHz on MW.

The respective waveband must be selected.

Repeatedly press the O STEP button until the desired tuning step value (e.g., in the figure, STEP 9kHz) is indicated in the display.

With the unit switched off, you can switch between the tuning steps 9 kHz and 10 kHz (for USA radio stations) in the MW band.

If the unit is not yet switched off, do this.

Press the AM button, then repeatedly press the 
STEP button until
the desired step value is indicated in the display.

After approx. 5 seconds, the display will indicate again the clock time.

You can switch between 9 kHz and 10 kHz tuning steps
- as soon as the AM button has been pressed after switching off the

- until you switch the unit on again.

This is a precaution to avoid accidental tuning step switching.

When activating the automatic tuning mode, the unit automatically switches to the higher tuning step. However, the 9 kHz or 10 kHz choice in the MW band is retained.

#### Manual tuning

Trune to the desired station by <u>briefly</u> pressing on the ○ TUNING ▲ or TUNING ♥ button.

Fach pressure on the button performs a tuning step of the value.

adjusted for the respective waveband (FM: 50 KHz, AM: see chapter 'Adjusting the tuning steps'.)

When !kepting ressed the Ü TUNING ▲ or TUNING ▼ button, the respective waveband will be scanned at high speed with the tuning steps selected for If. Releasing the presend button will stop scan-

g.

# **Station Tuning**

#### Automatic tuning (AUTO TUNING) This frequency search is started by pressing the O AUTO TUNING

button Short presssure: Search is started in direction of higher frequencies. Long pressure: Search is started in direction of lower frequencies.

The search function operates with the tuning steps 9 kHz on LW.

5 kHz on SW.

9 or 10 kHz on MW.

If a lower step value has been adjusted, the unit will automatically select the tuning steps indicated above. For 9 kHz/10 kHz switching on MW, see chapter 'Adjusting the tuning steps', page 16.

The automatic search will stop as soon as it has found a station with sufficient field strength for good reception. It can then be restarted with the O AUTO TUNING button (brief or long pressure).

#### Station Tuning with the Numeric Buttons

#### (Direct frequency entry)

For this, the frequency of the station you wish to tune to must be known. You can find these frequencies in station tables or radio ouides. You can enter the frequency in MHz or kHz, or as meter band on

Confirm the entries with the O FREQUI/METER button On FM: MHz indication

On AM: kHz indication

#### Examples: Desired frequency

SW

#### Entry order 99.00 MHz → ○ FREQUI/METER button 99.00 MHz 99.0 → ○ FREQUI/METER button

99.00 MHz 99.00 → ○ FREQU/METER button 99 10 MHz 99.1 → ○ FREQU/METER button 99.10 → ○ FREQU./METER button 99 100 - O FREDIL/METER button 7000 kHz 7000 → ○ FREDIL/METER button

It is absolutely necessary to enter the decimal point, even if no further figures follow. The decimal point is the indication that the entry is made in MHz. Without decimal point, the entry is interpreted as kHz entry.

# **Entering a Meter Band**

#### Entering a meter band on SW

Entered numbers below 100 with subsequent confirmation by the O FREQUIMETER button are interpreted as wavelength in meter for SW.

If the entry is valid, a frequency next to the band centre will be tuned to in the case of radio bands, and the beginning of the respective SW band in the case of amateur bands.

See table on nane 19

It is possible to enter the following meter bands: 10. 11. 12. 13. 15. 16. 17. 19. 20. 22. 25. 30. 31. 40. 41. 49. 60. 75.

an an

Entry example for the 49-m band: Numeric buttons 4.9. button ○ FREQU/METER -> 6075 kHz



#### Indication of the current hand on SW

In the case of direct frequency entry or SW frequency scan

(within a m-band):

The selected band is permanently indicated. In the case of direct frequency entry or manual tuning:

If the frequency tuned to lies within one of the above indicated hands this band will permanently be indicated in the display.

If the entry made is invalid, the indication " Error appears for annrox 5 seconds in the display

# Entering a Meter Band

Band (m)	Lower cut-off frequecy (kHz)	Radio station* or band centre
90-m tropic	3200	3300
80-m amateur	3500	
75-m radio	3900	3955
60-m tropic	4750	4905
49-m radio	5950	6075
40-m amateur	7000	
41-m radio	7100	7200
31-m radio	9500	9635
30-m amateur	10100	
25-m radio	11650	11845
22-m radio	13600	13700
20-m amateur	14000	
19-m radio	15100	15320
16-m radio	17550	17705
17-m amateur	18065	
15-m amateur	21000	
13-m radio	21450	21690
12-m radio	24890	
11-m radio	25650	25820
10-m amateur	28000	

 Not all radio stations are broadcasting 24 hours the day and during all seasons a programme on this frequency. For this reason, consider the different broadcasting times.

# Storing, Calling Up, and Clearing

#### What Can You Store?

You can programme up to 40 station memory positions (memory positions 1 ... 40) in random order, also mixed from the 4 wavebands FM-MW-LW-SW.

You can store in memory each frequency tuned to.

#### Checking the Reception Frequency

You can check whether a frequency is already stored on one of the memory positions.

Tune to the desired frequency.

Press the STORE button a long time.

The indication "MEMORY" appears in the display. The unit checks whether the frequency is already stored.

If yes, the display indicates "MEMORY" and the number of the memory nosition on which the frequency is stored.

If no, the indication 'MEMORY' disappears from the display.

### Creating/Overwriting a Memory Position

Check whether the frequency is already stored in memory.

Enter the number of the desired memory position with the numeric

buttons (the number appears in the display).

Press the STORE button (within 5 seconds).

Press the STORE button (within 5 seconds If the memory position is free.

 the display indicates "MEMORY", the number of the selected memory position, and the frequency of the station tuned to. If the memory position is alread occupied,

 the frequency indication flashes in the display. The indications "MEMORY" and the number of the selected memory position remain

steady.

If you press the STORE button a second time within 5 seconds, the memory position will be overwritten, otherwise if remains

18:00 /\*\* 102.00 Leve

#### Calling Up Stored Stations

Direct entry

Enter the number of the desired memory position.

unchanged

Briefly press the ○ MEMO ▲ or MEMO ▼ button.

If the memory position is occupied,

— the unit automatically tunes to the station in the respective wave-

The display indicates the frequency of the station.

 The display indicates "MEMORY" and the number of the mer position.

If the memory position is free, the display indicates for approx, 5 seconds 'MEMORY', the number

of the memory position, and 'FREE'.

# Storing, Calling Up, and Clearing

#### Memo buttone

A short pressure on the O MEMO & button calls up the next higher memory position. The unit automatically tunes to the corresponding

A short pressure on the ○ MEMO ▼ button calls up the next lower memory position. The unit automatically tunes to the corresponding station in the correct wavehand

I non pressure on the C MEMO Abutton:

- All occupied memory positions are scanned in ascending order. - Each station remains tuned to for approx. 5 seconds before the unit goes to the next one.
- A further pressure on the O MEMO A button stops scanning
- Long pressure on the MEMO ▼ button - All occupied memory positions are scanned in descending order.
- Each station remains tuned to for approx. 5 seconds before the unit ones to the next one - A further pressure on the ○ MEMO ▼ button stons scanning
- Indicating Free Memory Positions

free memory position in upward direction.

A pressure on the PREE button will indicate the first free memory

position in the display. Each further pressure on the O FREE button will indicate the next



#### Clearing a Memory Position

Enter the number to the desired memory position with the numeric buttons (the number is indicated in the large numeric block in the display).

- Drace the C EDEE hutton
- If the memory position is free,
- the display indicates "MEMORY", the number of the selected memory position and 'FRFF' If the memory position is occupied.
- the display indicates "MEMORY" and the number of the selected memory position.
- The frequency indication is flashing in the display.
- If you press the FREE button within 5 seconds a second time, the contents of the memory position will be cleared.

# Going to Sleep to Music

You can enter a time period (60 minutes max.), after which the radio switches automatically off

Press the O SI FFP button

When the radio was switched off, it will be switched on. The further

procedure is independent of whether the radio was switched off or not The switch-on period (period until the radio is switched off) is 60

minutes The display indicates for approx. 5 seconds the remaining switch-on

It indicates in addition [SLEEP] to signal that the 'automatic switch-off

98.50 ....

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Repeated pressures on the O SLEEP button will reduce the switchon period in stens of 10 minutes Each time the O SLEEP button is pressed, the display indicates for

approx. 5 seconds the remaining switch-on time. When pressing the O SLEEP button has reduced the switch-on period to 0 second, the unit switches off. A further pressure on the O SLEEP button switches the radio on again and the initial switch-

on time of 60 minutes is selected Repeated pressures on the O SLEEP button give the following order:  $60 \rightarrow 50 \rightarrow 40 \rightarrow 30 \rightarrow 20 \rightarrow 10 \rightarrow off \rightarrow 60 \rightarrow 50 \rightarrow ...$ 

The numbers indicate the minutes left till the automatic switch-off,

When the programmed switch-on period has elapsed, the unit is switched off and the [SLEEP] indication goes out.

#### Checking the switch-on time:

Briefly press the O SLEEP button. The display indicates the time left till the automatic switch-off

Clearing the switch-on period prematurely: Switch off the unit with the O ON/OFF button or press the

SNOOTE hutton

### The Clock

Here too, each entry step (button pressure) must be completed within a period of 5 seconds.

You can enter clock times no matter whether the unit is emitched on

There are several possible methods for entering clock and switching timeo

Examples:

Clock time Possible entries

1st example: Clock time 6:30

06.30 2nd example: Clock time 15.00 15.00 3rd example: Clock time 0.15

.15 00.15

### Setting the Clock (TIME I)

Setting TIME I with the help of a reference clock.

Example TIME I: 6:30 h

The display must indicate TIME I. Enter the clock time with the numeric buttons immediately before the reference clock changes from 6.29.59 to 6.30.00. The period between

the last entry and 6.30.00 must not exceed 5 seconds. Press the TIME I/II button at the moment when the reference

clock jumps from 6.29.59 to 6.30.00. When pressing the TIME 1/2 button, the clock is started exactly to the second and the minutes

#### Setting the Clock (TIMF II/Clock Time II)

For setting TIME II follow the same steps, except that the display must indicate TIME II.

As the seconds of TIME II are running synchronously with the seconds of TIME I, it is not necessary to wait until the minute changes.

### Clock Time Indication (TIME I/II)

You can switch between the indications of the two clock times by pressing the TIME I/II button (no numeric entry beforehand).

TOME I 18:00

# Automatic Switch-On/Wake-Up Function

Your radio allows you to enter a wake-up time (switch-on time).

When selection the function 'Wake-up with radio', you will hear the

When selecting the function "Wake-up with radio", you will hear the last received radio station.

The switching times refer to the clock time (TIME I or TIME II) indi-

#### cated in the display. Example:

You have entered the <u>local time</u> (e.g., CET or CEST) as TIME I. TIME II stands for a <u>second time rone</u> (e.g. Greenwich Mean Time (GMT), You have entered 14.00 h as switch-on (wake-up) time and activated the wake-up function.

If the display indicates <u>TIME I</u>, the unit will be switched on at 14.00 h local.time:
If the display indicates <u>TIME II</u>, the unit will be switched on at 14.00 h

### Entering a Switch-On Time

Littering a Switch

Switch on the radio.

Enter the desired switch-on (wake-up) time with the numeric buttons

Press the ON TIME button to store the entered <u>switch-on time</u> in memory.

The switch-off time is automatically set to one hour after the switch-

The <u>switch-off</u> time is automatically set to one hour after the switchon time.

Select the desired wake-up mode by repeated pressures on the

O AUTO button.

The radio is muted and you hear a sound signal instead.
This function is also possible with the radio switched on, e.g.,
to remind you at a date.

--- = Wake-up function switched off.

#### Checking the Entered Switch-On Time

When the radio is switched off, the display indicates the switch-on time and the wake-up mode.

### Wake-Un with Radio/Automatic Switch-On

Select "Wake-up with radio" (symbol ≠ in display) with the ○ AUT0 button.

Adjust the wake-up time.

Before switching off the radio, tune to the station and adjust the volume with which you wish to be woken up. Switch off the radio.

# Automatic Switch-On/Wake-Up Function

At the programmed time, the radio is automatically switched on. If no button is pressed, the radio will play for about 60 minutes and then is switched off automatically.

minutes and the rsymbol is flashing in the display. You can repeat this snoce function as often as desired. If you press the Colonia State of the radio is completely switched off. The rsymbol is permanently indicated.

The wake-up function is repeated next day.

Wake-Up with Sound Signal (Date Reminder)

### Select 'Wake-up with sound signal' (symbol ♦ in display) with the

Adjust the wake-up time.

Wake-up with signal sound' is possible, if - the radio is switched off (wake-up),

the radio is switched on (date reminder).
The radio is automatically switched off and the sound signal is started.

In the radio is automatically switched off and the sound signal is started.

In the radio is switched on (date reminder).

The radio is switched on (date reminder).

If no button is pressed, the sound signal will last 5 minutes.

If you press the SN00ZE button, the alarm sound will be swifched off for about 5 minutes and the ◆ symbol is flashing in the display. The snooze function can be repeated as often as desired.

If you press the SN00ZE button for more than 2 seconds, the alarm sound is completely switched off. The ◆ symbol is permanently visible and the wake-un function will be recreated next day. Clearing the Wake-Up Function

Switch off the wake-up function with the O AUTO button (the symbols r3 and  $\phi$  must disappear from the display).

When the radio is switched off

ON-TIME is not visible in the display.
 The indication -: -- appears instead of the programmed wake-up time

in the left numeric block in the display.

The programmed wake-up time remains stored in memory.

# Special Functions on AM

#### SSB Mode (Amateur Radio Reception)

SSB recention is an additional function to "normal" radio reception. It allows you to listen to amateur transmissions (mostly speech), In most cases, these are transmitted in the SSB mode (Single Side

#### Proceed as follows:

Switch the unit on and select a SW amateur band (see table in chan-

ter 'Entering a Meter Band'). Set the switch STERED MONO

WIDE NARR to NARR/OW). Set the SSW switch ton ON.

Use the O STEP button to adjust the tuning step to 1 kHz. Set the TONE switch to HIGH

Use the O TUNING ▲ and TUNING ▼ buttons to slowly scan the hand sten by sten for SSR stations

When doing this consider that the carrier is suppressed on SSR broadcasts.

This means that reception is only possible when the transmitter is actually broadcasting (mostly in speech).

The TUNING indication is of great help when searching SSB stations. The TUNING indication deflects in the rythm of the speech.

As soon as a station is found - the speech is still unintelligible - tune to best possible reception with the help of the FINE TUNING control. When arriving at the limit of the finehuning range, it may be necessary to switch to the next tuning range by means of the O TUNING A and THNING W humone

If you wish to terminate reception of SSB stations, do not forget to switch back to normal radio recention:

DX LOCAL switch to DX

SSB switch to OFF. STEREO MONO WIDE NARR switch to STEREO.

TONE switch as desired

### Interferences

If interferences should occur in the AM bands (MW, LW, SW), you can optimize reception with the FINE TUNING control.

# Specification

# Power Supply

Rysix 1.5 V batteries (IEC LR 6) External supply: By a commercial 9 V DC mains unit (see connecting

#### spcket).

Ostput Power

#### 600 mW (via built-in loudspeaker). Built.in Apriale

Telescopic aerial for FM and SW

#### Ferrite rod aerial for MW and LW.

Connecting Sockets For external voltage supply: DC 9V

Coaxial socket (outer diameter 5.5 mm, inner diameter 2.1 mm). Neutral concuctor connected to chassis +-@--.

#### For earphone/headphone Q.

Socket for jack plug of 3.5 mm ø. 32 Ohm impedance. for shortwave reception.

For external aerial EXT ANT. Socket for lack plug of 3.5 mm a.

# **Specification**

Intermediate Frequencies

AM: ZF 1: 55.85 MHz, ZF 2: 455 kHz

FM: 10.7 MHz

875 ... 108 MHz

1.711 30 MHz

3.95 ... 26,1 MHz (Yacht Boy 400 IB)

Wavehands

EM:

MW:						
MVV:	520 1710 kHz	60-m tropical	4750	-	5060	
	527 1606 kHz (Yacht Boy 400 IB)	49-m radio	5950	-	6200	
LW:	144 353 kHz	41-m radio	7100	-	7300	
		40-m amateur	7000	-	7099	
	149 283 kHz (Yacht Boy 400 IB)	31-m radio	9500	-	9900	
		30-m amateur	10100	-	10150	
Tuning St	eps	25-m radio	11650	-	12050	
FM: 50 kH	7	22-m radio	13600	-	13800	
		20-m amateur	14000	-	14350	
SW: 1 kH:	C / S KHZ	19-m radio	15100	-	15600	
MW: 1 kH	z / 9 bzw. 10 kHz	17-m amateur	18065	-	18170	- 1
LW: 1 kHz	/ Q kH+	16-m radio	17550	-	17900	- 1
		15-m amateur	21000	-	21449	- 1
Fine tunin	g on SSB: ± 1 kHz	13-m radio	21450	-	21850	- 4
		12-m amateur	24890	-	24990	- 1

Receivable SW bands

80-m amateur 3500

Rand

Dimensions: approx. 180 x 120 x 37 mm<sup>3</sup> (width x hight x depth) Weight: approx. 590 g

Subject to technical alterations and alterations in styling,

28000

26100

29700 (not with YB 400 IB)

Frequency (kHz)

3400 (not with YB 400 IB)

3800 (not with YB 400 IB)

90-m tropical 3200

2000

E. and O. E.

11-m radio

### Specification

# Hints - Prescriptions

Use only a soft cloth which picks up dust to clean the cabinet. Do not use aggressive polishes or cleaning agents. Do not expose the set to temperatures above 60°C. In the case of defects, consult your set calized dealer, Protect the unit against any moisture (e.g., diricoing or

The unit meets the CEE regulations concerning interference radia-

tion.

The unit complies with the safety regulations according to VDE 0860/8S 415 and thus with the international safety regulations according

### Radio Stations

enlashing)

Deutsche Welle D-50588 Köln Radio Austria International A-1135 Wien Würzburggasse 30

Swiss Radio International CH-3000 Bern 15 Giacomettistr. 1 Radio Nederland

P. O. Box 222 NL-1200 JG Hilversum Radio France Internationale 116 av. du Pres. Kennedy F 75786 Paris Cedev 16

Radiotelevisione Italiana Viale Mazzini 14 I-00195 Roma

BBC London External Services Bush House London WC2B 4PH

Radio Moscow
Pjatnickaja 25
Moskva Russische Föderation
Radio Exterior de Espana
P. O. Rox 156 202

P. O. Box 156.202 E-28080 Madrid