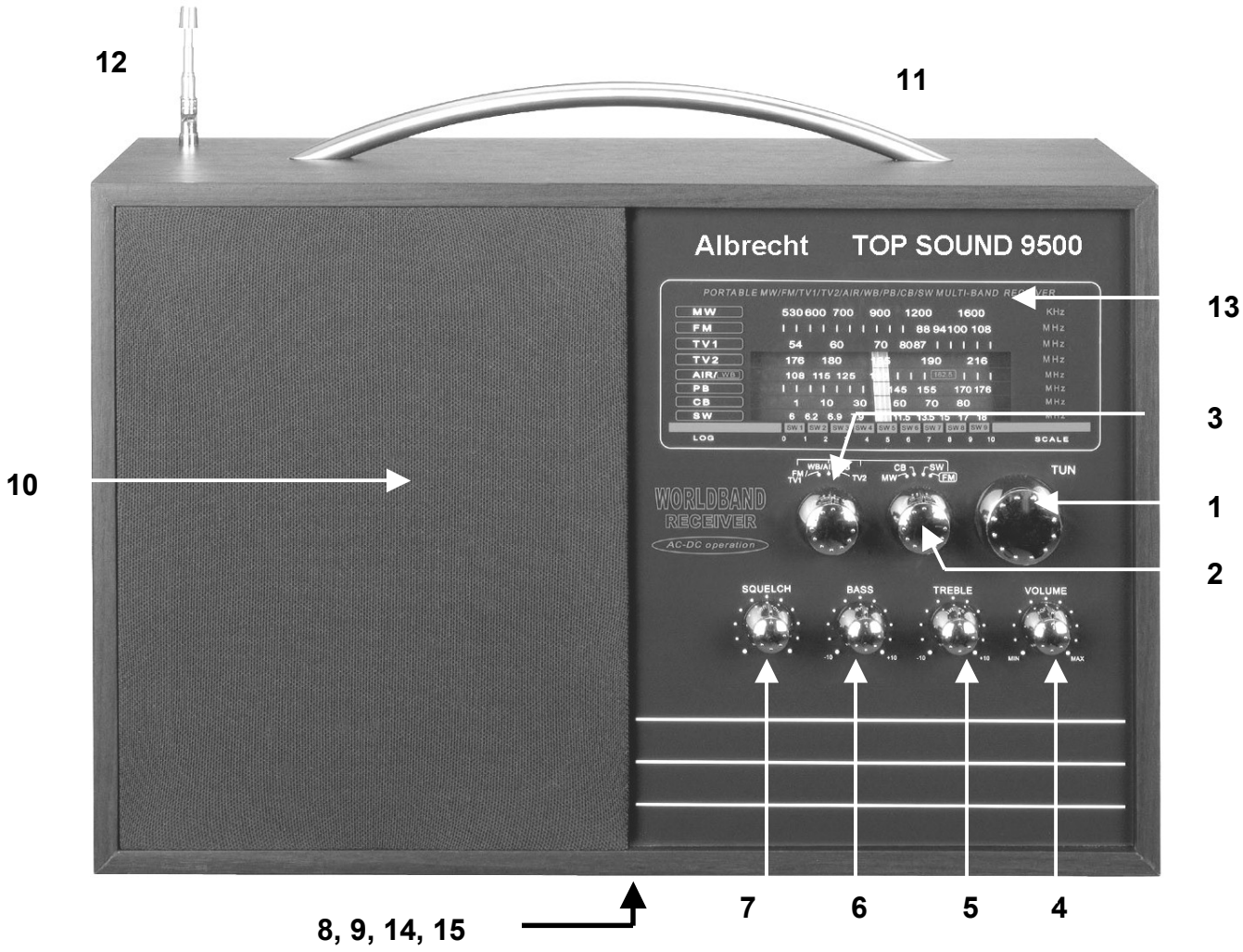
TOP SOUND 9500
Multiband-Radio



LOCATION OF CONTROLS

1. Tuning control
2. Band selector
3. FM switch
4. On/off volume control
5. Treble control
6. Bass control
7. Squelch
8. Battery case (rear side)
9. AC socket (230 V) (rear side)
10. Speaker
11. Handle
12. Telescopic antenna
13. Tuning display
14. Speaker (earphone-) jack (rear side)
15. Microphone connector (rear side, microphone not supplied with radio)

OPERATION

DC Operation
Take the lid of the battery case (8) off the battery case and insert 6 batteries size D (Mono) 1.5 V. Be sure of the correct position of the battery poles to avoid damage of the electronic installation! Never mix various brands of batteries! Never mix full and empty batteries at the same time!

AC Operation 230 V
You will find the power cable inside of the battery compartment. Insert the power plug (9) only after having checked that the voltage of the power corresponds with the voltage of the receiver (in Europe mostly 220/230 V 50 Hz).
If You should use the radio only with AC supply without inserted batteries and higher audio volumes, we recommend to take out the battery compartment door, or insert the foam sponge added to the gift box- this will avoid vibration of the battery door

Saftety and warning notes

This radio is designed for normal home environment operation. Please protect your radio against too high temperatures, direct sunlight and excessive humidity. Do not clean with wet or aggressive detergents or materials. In case you will not use the radio for a longer time period or only via 230 V AC supply, please remove the batteries. This will protect the radio from damage by leaking or corroded batteries. Weak or empty batteries may leak and thus damage the receiver:
Never open the radio- in case of a defect allow only a qualified technician to open the radio. Disconnect the 230 V power cable before any repair attempt! Never use a damaged power cord – replace cable immediately.

Volume & Power ON/OFF
Use the rotary knob **Volume / ON/OFF** (4): turn clockwise until radio switches on and adjust the desired volume. To switch off, turn counterclockwise. The click noise will indicate the **OFF** position.

Telescopic antenna
Completely extend the antenna to full length until you can hear the desired station best. Reception can even be improved by either shortening the antenna or giving it a different angle. Please note that this antenna is not operating on MW (AM Radio range)

General information for tuning and reception

With the help of the two linked switches (2) and (3) you can choose the desired band among CB, TV1-FM, WB-AIR-PB, SW, MW or TV2. With the help of the tuning control (1) you search for the desired station and adjust the volume with the volume control (4).

Medium Waves reception (AM 530 - 1620 kHz) MW
In this traditional broadcast frequency range a built-in magnetic ferrite antenna is operating. On medium waves, the telescopic antenna has only low efficiency and is not needed. Because ferrite antennas have directional effects, turn the radio until you have the best reception of the desired station. Choose MW position with selector knob(2) and adjust tuning control to desired station. The best antenna tuning position depends on which station you wish to hear. On Medium Waves you will have a high range of reception during evening and night hours.

Short Waves reception SW
Extend the telescopic antenna to full length to ensure best sensitivity. Turn the band Selector (2) into position SW (SHORT WAVES) and tune (1) in the desired radio station. On Short Waves you will be able to listen to long-distance services.

CB- Radio Reception

The CB (**C**itizen's **B**and) frequency range is used for local communication among hobby radio users. Extend the telescopic antenna to full length to assure best reception. Turn the band selector (2) into CB position and tune (1) over the CB band. The channel numbers correspond roughly to ***international CB channel numbers***.

Like on all typical two-way-radio bands, you may use the squelch knob which can suppress the noise, audible on channels during the time periods when nobody is transmitting. Adjust the squelch knob carefully on a free channel to exactly that position, where the noise just begins to disappear.

TV1- FM- Reception (4 m commercial radio band and 3 m FM broadcast band)

Initially extend the telescopic antenna to full length and adjust the angle, if necessary. Select TV1 - FM mode with control knob (3) and find a station by tuning the frequency tuning knob (1). Take care that the selector (2) is in FM position. Use the squelch knob for receiving non continuous transmitting radio services, like PMR or utility or security radio stations. Adjust the squelch knob carefully to that position where the noise just disappears, when the station is just not transmitting. ***Standard FM broadcast band is TV1-FM in the range 87.5 to 108 MHz.***

WB/AIR/PB - Reception (2m Band, Air Band, Amateur Radio, Commercial (PMR) Radio)

Extend the telescopic antenna initially to full length. Use FM mode selector switch (3) to select WB-AIR-PB position and adjust the tuning knob (1) to the desired station. Make sure that selector (2) is in position FM. When receiving a station, it may be necessary to readjust the antenna to optimum length and antenna angle. Sometimes a shorter length gives better receiving quality! Use squelch, if necessary. ***Note:*** commercial radio stations usually transmit only when needed, they also do not use high power transmitters- thus the resulting communication range cannot be compared to the range of broadcast stations in the 3 m FM band. The WB (weather channels) band is only operated in USA and Canada, not available in Europe.

TV2- Reception (higher VHF band segment, TV audio of „Band III")

For this band you will need the telescopic antenna, but the optimum length will be shorter (depends on wave lengths). 50-60 cm should be reasonable. In Europe, you can receive on TV 2 band the audio channels of (analog) cable TV or TV stations operating on analog TV channels 5-11. Digital stations (DAB / DVB-T) cannot be received.

Microphone Amplifier (PA, Public Address) (15)

On the rear side of the radio You will find a 3.5 mm mono type socket, where You can connect a standard 600 Ohms dynamic microphone. The radio reception will automatically stop when inserting a microphone plug. You may use the unit as powerful public address system for education, presentations and many other purposes. Please use preferably directional or noise cancelling microphone, adjust tone and volume so that no feedback noise appears. Never place a microphone directly in front of the speaker, place it always behind a speaker and do not adjust too much bass transmission.

Loudspeaker or Headphones

This socket on rear side is exclusively designed ***only*** for external ***8 Ohms speaker*** systems or ***higher impedance headphones*** (for example 400 Ohm open headphones) . You will need a 3.5 mm mono type plug. The internal speaker will be disconnected when inserting an external speaker or phone.

Caution! Risk of acoustical shock and health risk when using headphones!

Never connect any headphone with 8 Ohms impedance. Such headphones can produce too much loudness volume and can involve acoustical shocks. Many older headphone models still work with 8 Ohms technology. As a protection against too high audio volumes always reduce volume to minimum before inserting any headphone, and adjust to a comfortable value later.

Legal Information

This radio is able to receive radio communication which may be private or limited to authorized users only. In most countries it is not allowed to listen to such radio conversations without authorization by the radio service. Make sure that you listen only to legal public radio services.

Technical Data Multiband-Radio MW SW CB TV1-FM AIR-PB-WB TV2

Albrecht- Order- Nr.:	27 047	
Antenna:	FM: Telescopic antenna, for Short Waves SW and all VHF ranges MW: integrated ferrite antenna	
Frequency ranges: AIR	108 -145 MHz.	(Airplane to ground)
	PB 145 -176 MHz.	(2m Band, VHF, PMR)
	WB 162.5 MHz	Weather reports, only USA
	TV1 54 -87 MHz	(4 m Band)
	FM 88 –108 MHz	(FM broadcast)
SW	6-18 MHz	(Short Waves 49-16 m Band)
MW	530 – 1600 KHZ	(classical AM broadcast)
TV 2	176 – 216 MHZ	(VHF Band III)
CB 1- 80	CB-Radio	ca. 26.5 bis 27.8 MHz

Tuning knobs and audio functions:

Bass	100 Hz + 10/-10dB bass audio control
Treble	10 KHz + 10 /-10dB treble control
Audio output power	max.6W (RMS) (corresponds to 40 Watts (PMPO) at 8 Ohms and 10 % THD distortion
Speaker	ca. 13 cm dynamic broadband speaker 8 Ohms external socket 3.5 mm mono type
Microphone socket	appr. 2 mV / 600 Ohms for dynamic microphone public address (PA) function, 3.5 mm mono
Power Supply	integrated AC power supply 230V 50Hz or Battery DC supply 6 x 1.5 V size UM1, D or „Mono“
Dimensions	400 mm x 270 mm x 150 mm weight : appr. 4.8 kg (without batteries)
AC supply	1 Euro-power cable for 230 V AC is supplied inside battery compartment (for transportation)
CE Conformity	the radio fulfills the appropriate EMC- product- and LVD (safety) standards for radio receivers and is marked with the CE mark.

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