

**BRAUN**

**T 1000 CD**

**Hinweise zum Gebrauch  
Instructions for use  
Mode d'emploi**

## Power supply from batteries



For battery operation, eight 1.5-volt mono cells are required. (Size D; international designation; R 20, e. g. Pertrix 222. Where especially long life is required, the Mallory MN 1300 is recommended). A ninth battery is used to light the dial; it does not affect operation of the receiver.

To insert the batteries loosen screws of the battery compartment located in the lower rear of the receiver and remove its lid. Insert batteries in two rows with minus (—) contact against the spiral spring. The dial-lighting battery is placed at an angle of 90° to the other batteries. It normally has longer life than the latter and need be replaced only when the dial is no longer sufficiently lighted.

Set the -battery-line- sliding switch on the front panel to -battery- position. Strength of the battery pack is indicated by the moving-coil meter visible on the control panel. To activate it, first switch on the receiver and operate it at medium volume for at least five minutes. Then verify battery strength by pressing the dial-lighting button (-dial-on-). The batteries have sufficient strength when the meter pointer is deflected into the red section. If the pointer does not reach the red area, the battery pack is exhausted and must be replaced (except, of course, for the dial-lighting battery).

Warning: Exhausted batteries may leak and damage the instrument. Do not under any circumstances, leave them in the receiver. It is also advisable to remove the batteries when the instrument will not be in use for an extended period of time.

#### **Power supply from external sources**

To operate the instrument off 6-, 12-, or 24-volt DC power sources or 90-130-volt and 160-240 V AC outlets, a special adaptor TN 1000 is required, available as an accessory. To connect it, open the rear of the T 1000 CD by giving the upper screws a quarter turn to the left (until they lock). Insert the power line adaptor in the sockets provided. Detailed instructions for its installation are supplied with the line adaptor.

The **-line-battery-** switch must be set in **-line-** position when the receiver is operated off an external power source.

#### **Recharging of batteries**

If the T 1000 CD is equipped with rechargeable batteries such as the DEAC NC storage battery (BD 2.5 or RS 3.5) and the TN 1000 AC-DC power adapter, the batteries can be recharged as follows: Set the switch of the power unit at the back of the T 1000 CD to **-on-** and set the **-on-off-** switch at the front of the T 1000 CD to the **-off-** position.

Set the **-line-battery-** switch on the front plate of the T 1000 CD to the **-battery-** position. Important: When recharging, the power adapter of the T 1000 CD must be plugged into an AC outlet of 90-130 volts or 150-240 volts or a DC outlet of 12-24 volts.

It takes 25 hours to recharge the DB 2.5 battery and 35 hours to recharge the TS 3.5 battery. This will give 40 hours playing time with the RD 2.5 and 70 hours with the RS 3.5 for operation at normal intervals.

If other makes of rechargeable batteries are used, the recharging time can be determined by multiplying the Ah value printed on the battery by 10.

Batteries may also be recharged while the T 1000 CD is playing, but the recharging time will be about 70 % longer.

If the T 1000 CD is to be powered by its batteries with the built-in power adapter plugged into an AC outlet, set the sliding switch of the power adapter to the -off- position.

### **Turning on the T 1000 CD, adjusting volume and tone**

To operate the T 1000 CD, first open the metal cover at the front. This cover may be removed completely by sliding it to the left after opening and unhooking it.

Turn on the instrument by sliding down the -on-off- switch to the -on- position. Turn the rotary knob marked -volume- clockwise to increase the volume of reproduction.

**Pull this knob out to switch in a filter.**

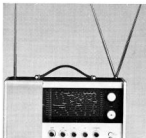
The rotary knob marked -tone- controls the high frequencies of reproduction. To boost the treble tones, turn the knob clockwise and to reduce the treble tones turn the knob counter clockwise. Pulling the -tone- knob out reduces the low tones and makes speech easier to understand.

With the filter switched in (see above), the frequency pass band can be modified. Turning the tone control clockwise emphasizes the high frequencies and turning it counter clockwise emphasizes low frequencies.

With the bandwidth switch in the -sharp- position, low frequencies are suppressed. Filter and low frequency suppression work on both AM and FM reception.

When receiving normal FM broadcasts, care must be taken that the bandwidth switch is in the -broad- position and the volume control is not pulled out. Also the tone control knob should not be pulled out in order to maintain the full frequency range.

## Antennas



The instrument is equipped with a telescopic dipole for the FM band, a telescopic antenna for SW bands, and a ferrite antenna for LW, MW, and sw 8 bands.

For FM reception pull out the two adjoining antenna rods top right-hand side of the receiver. \*Tilt the rods in opposite directions so that they form a <math>\nabla</math> or are in horizontal position. Rotate them to determine proper position for optimum reception.

If desired, an external FM antenna may be used in place the telescopic dipole. It is connected to the antenna sockets marked <math>\nabla</math> at the front of the receiver. In this case the telescopic antenna should not be pulled out.

For Short-Wave reception on bands sw 1 through sw 8, pull out the telescopic antenna on the top left-hand side. When receiving a nearby station do not pull out the telescopic antennas.

An external antenna may be connected to the socket marked <math>\uparrow</math> on the instrument's front panel. It may be tuned for optimum reception

Single-sideband broadcasts can also be received by using the bfo. Tune the receiver to the station desired and switch on the bfo. Adjust for clearest understanding of speech by carefully operating the -AM-Tuning- knob (with black dot) or the -aL.-bandspread-control.

The bfo must also be adjusted to its optimum setting. For normal reception of AM broadcasts, keep the bfo switched off (in its counter clockwise position) otherwise a whistling sound will be heard.

#### **MGC (Manual Gain Control)**

The automatic gain control may be switched off by turning the -mgc- control. This allows any desired constant gain to be set manually up to the maximum sensitivity of the T 1000 CD. The instrument is set for maximum sensitivity with the -mgc- control in its maximum clockwise position. The minimum sensitivity is set with the control its counter clockwise position.

Warning: Don't turn the gain up so far that the receiver will be overloaded. The pointer of the indicator may only be set for its maximum possible deflection.

The automatic gain control should be switched on and the manual gain control switched off for normal reception of AM broadcasts. Otherwise the difference in volume between various stations will be too strong and the more powerful stations will overload the receiver. Therefore, care must be taken that the -mgc- control is in its counter clockwise rest position.

#### **Phono, Tape**

A record player or tape recorder may be connected to the -phono/tape- socket. For reproducing records or tapes, press the -phono/tape- button. The bandwidth switch must be in its -broad- position to avoid reduction of low frequencies. Also, be careful to leave the tone filter switched out. (See section on -Turning on the T 1000 CD, Adjusting Volume and Tone-.)

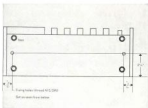
A tape recorder connected to the -phono/ tape- socket will record a radio broadcast as it is received. The tape recording is not affected by the -volume- control.

The -tone- control should be in its clock-wise position and filter and low-frequency reduction switched off to maintain the entire frequency range uncut.

#### External speaker; headphones

An extension speaker of 8-ohm impedance may be connected to the socket marked -speaker- on the receiver's front panel. Headphones of at least 10-ohm impedance may be connected to the socket marked -phones-. In both cases the built-in speaker is automatically disengaged.

#### Mounting of the T 1000 CD



When permanently installing the receiver, insert mounting screws (M 5 thread) into the two threaded sockets at the base of the unit.

These sockets are located 2 1/2" from the rear of the set and 2 1/8" away from the sides. They are obscured by the covering material, which should be trimmed away before inserting the screws.

**Warning:** When installing the receiver, place the back at least 4" away from walls or any fixtures.

## Note

When writing to the factory please specify the serial number, which you will find on your warranty card under the T 1000 CD and near the AM variable capacitor.

## TN 1000 AC-DC Power Adapter

The TN 1000 operates on AC current of 50/60 cycles and 80-130 volts (110-volt position on the voltage selector), or 150-240 volts (220-volt position); also on DC 6-12 and 24 volts.

Before plugging the power adapter into an AC outlet, check the voltage selector for the correct setting. At the factory, the power adapter is set for 220 volts AC. (220 V ~). To change the setting turn knob clockwise by means of a coin.

If the power adapter operates on AC, the power transformer must be switched in by sliding the switch to its -on- position. When operating on DC, the sliding switch need not be moved.

### Replacement of fuses:

There are two fuses of the 50 mA medium-blow type in the TN 1000's AC power transformer. To replace a fuse, place the T 1000 CD face down on a soft surface so that the fuses cannot fall out of their holder. Pull out fuse holder and insert new fuses. Two spare fuses are supplied with the TN 1000.





In the event of a short circuit in the set connected to the power adapter, replacement of the fuse in the upper side of the unit is required if the set connected is powered by a 6-12-volt battery. To replace this fuse, first remove the power adapter from the T 1000 CD. Use the following fuses only: No. 278 500 PL -micro fuse-; 0.5 amp 125 v made by the German firm of Wickmann or by Littlefuse Inc., Illinois, U.S.A.

#### Connecting cables:

Three cables are provided with the TN 1000 power adapter:

1

A cable for AC power.



2

A cable for DC power of 6 to 12 volts. At one end is a plug matching the cigaret lighter socket on the automobile dashboard (DIN standard 72591). The cable is ready to plug in if the minus pole is at the car chassis end. If the plus pole is at the chassis end, the plug should be opened by loosening the



screws and the two contacts reversed.  
(The plus pole is marked.)

3

A cable for DC power of 24 volts.



This cable is supplied without plug, since there are various types of sockets for this particular voltage (e.g. on ships and boats), and the matching plug should be attached.

The plus pole is marked to grant correct polarity.

If polarity is incorrect, the power adapter will not work. In the event of a mismatch, there is no danger of damage to the receiver.

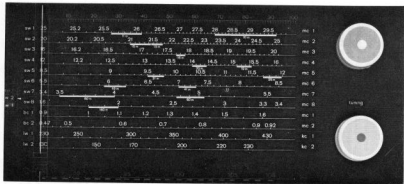
### Specifications

Inputs: 90 . . . 130 volts and 150 . . . 240 volts AC;

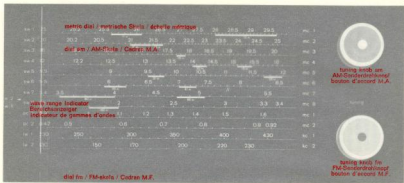
6 . . . 12 volts and 24 volts DC

Power output: at 12 volts 0,2 amp maximum.

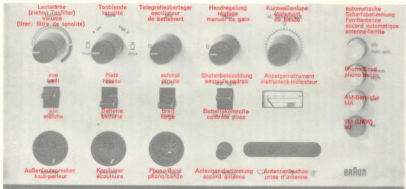
Subject to modifications at the discretion of the manufacturer.



Skalen/dials/cadrams



Skalen/dials/cadran





Bedienungselemente/controls/commandes