DAB radio   AJ5100

User Manual
Brukerhåndbok
Brugervejledning

AJ5100

PHILIPS

PHILIPS

DAB RADIO AE9011

6 x R14 • UM-2 • C-CELLS

2

```
Scanning...        12
████████
```

3

```
     PHILIPS
   DAB & FM Radio
```

4

```
7A          188.92MHz
```

5

```
FM Radio
◄88.10MHz          ►
```

6

```
FM Radio        2
◄88.10MHz          ►
```

7

① BBC Radio 5 Live / DLS Scrolling... → ② BBC Radio 5 Live / News

③ BBC Radio 5 Live / BBC National DAB

④ BBC Radio 5 Live / 10:32 07-08-2003

⑤ BBC Radio 5 Live / 12B 225.64MHz

⑥ BBC Radio 5 Live / 80kbps Mono

⑦ BBC Radio 5 Live / Signal error 7

8

```
Sleep after...
◄90  minutes       ►
```

9
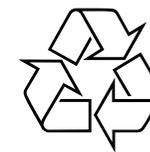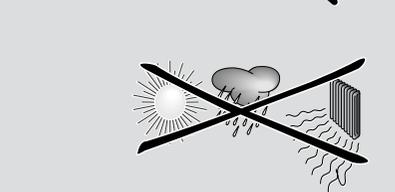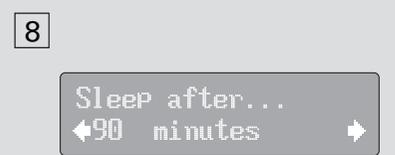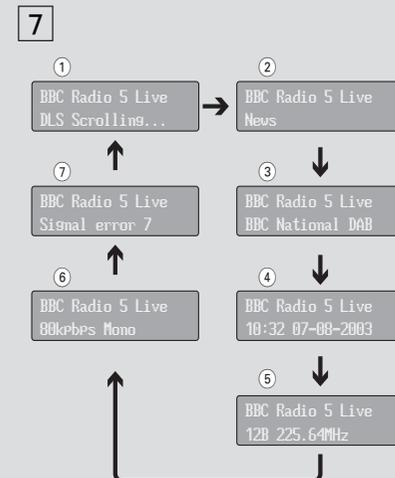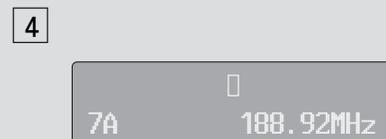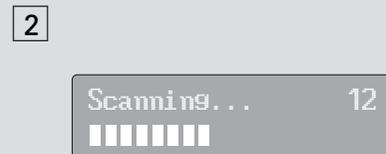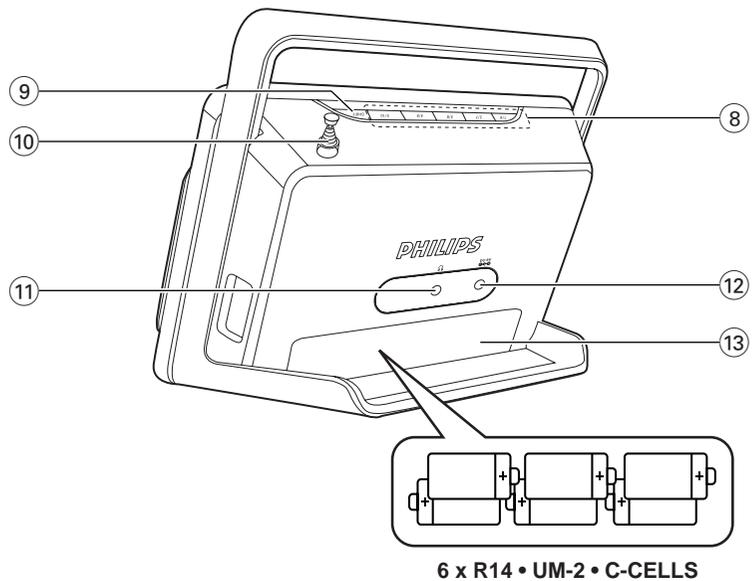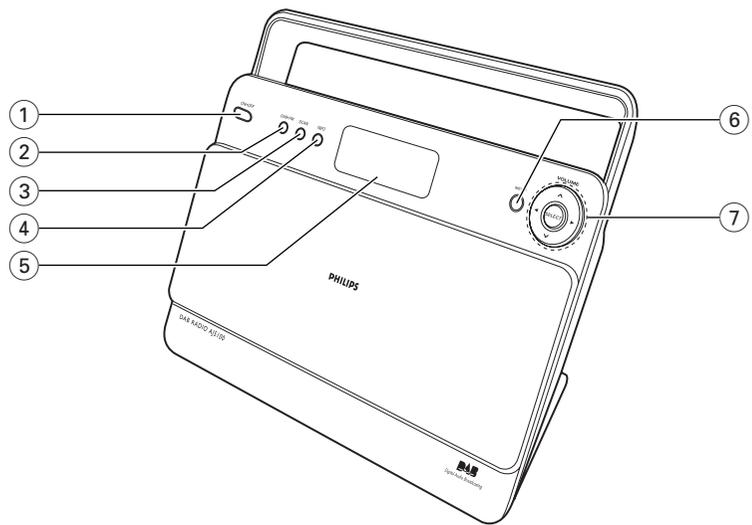
Supplied Accessory

– 9V AC/DC power adaptor

Front panel (see 1)

① **ON•OFF** – switches on/off the set

② **DAB•FM**
– selects DAB (on Band 3), or FM mode

③ **SCAN**
DAB: – auto search and store all DAB sta-
tions
FM: – tunes to a station

④ **INFO**
– in DAB mode, selects station information in
seven types
– switches DIM on or off (press and hold for 2
seconds)

⑤ **LCD display**
– displays DAB and FM radio information

⑥ **MENU**
– in DAB mode, enables access to advance
setup options
– activates resetting mode (press and hold for
2 seconds)

⑦ **VOLUME** ∧ ∨ – adjusts volume level

◄ / ►
– in DAB mode, selects DAB stations, or
selects menu options
– in FM mode, fine tunes a station
– adjusts sleep timer options

SELECT
– in DAB/sleep mode, selects an selection
– enters sleep timer setting mode (press and
hold for 2 seconds)

Top and back panels (see 1)

⑧ **Preset buttons 1/6, 2/7, 3/8, 4/9, 5/10**
– stores and recalls 10 DAB/FM stations

⑨ **SHIFT**
– switches from **1-5** presets to **6-10** presets

⑩ **Telescopic antenna**
– improves DAB and FM reception

⑪ ∩ – 3.5 mm stereo headphone socket
*Helpful hints: The speakers will be muted
when headphones are connected to the set.*

⑫ **9V DC jack**
– connects the supplied power adaptor

⑬ **Battery door** – opens to insert 6 × 1.5V
R-14/ UM-2/ C-cells

CAUTION

**High voltage! Do not open. You run
the risk of getting an electric shock.
The machine does not contain any
user-serviceable parts.**

**Modification of the product could
result in hazardous radiation of
EMC or other unsafe operation.**

**This set complies with the radio
interference requirements of the
European Union.**

Power Supply

Whenever convenient, use the mains supply
cord if you want to conserve battery life.
Make sure you remove the plug from the set
and wall outlet before inserting batteries.

Batteries (not included)

1 Open the battery door and insert 6 batteries,
type **R-14**, **UM-2** or **C-cells**, (preferably
alkaline) with the correct polarity as indicated
by the "**+**" and "**–**" symbols inside the com-
partment (See 1).

2 Replace the battery door, making sure the bat-
teries are firmly and correctly in place. The set is
now ready to operate.

• *Incorrect use of batteries can cause electrolyte
leakage and will corrode the compartment or
cause the batteries to burst:*

• *Do not mix battery types: e.g. alkaline with car-
bon zinc. Only use batteries of the same type
for the set.*

• *When inserting new batteries, do not try to mix
old batteries with the new ones.*

• *Remove the batteries if the set is not to be used
for a long time.*

**Batteries contain chemical substances, so
they should be disposed of properly.**

Using AC power

The set is operated with 9V DC power. Use
only the supplied AC/DC adaptor. Any other
AC/DC adaptor may damage the set.

1 Check if the power voltage, **as shown on
the type plate located on the rear of
the set,** corresponds to your local power
supply. If it does not, consult your dealer or
service center.

2 Connect the supplied power adaptor to the
9V DC jack (located on the rear panel) and
the wall socket. The set is now connected and
ready for use.

3 To switch the set off completely, withdraw the
power adaptor from the wall socket.

• Install the unit near the AC outlet and where
the power adaptor can be easily reached.

• Disconnect the power adaptor from the wall
socket to protect your set during heavy thun-
derstorms.

• AC/DC adaptor is used as the disconnect
device. It shall remain readily operable and
should not be obstructed during intended
use. To be completely disconnected the appa-
ratus from supply mains, the AC/DC adaptor
of the apparatus shall be disconnected from
the mains socket outlet completely.

**The type plate is located on the
rear of the set.**

General information

About Digital Audio Broadcasting (DAB)

DAB digital radio is a new way of broadcast-
ing radio via a network of terrestrial transmit-
ters. It provides listeners with more choice
and information delivered in crystal clear,
crackle-free sound quality.

- The technology allows the receiver to lock
on to the strongest signal it can find.

- With DAB digital stations, there are no fre-
quencies to remember, and sets are tuned by
station name, so there is no re-tuning on the
move.

What is a multiplex?

Digital radio operation is made up of a single
block of frequencies called a multiplex. Each
multiplex works within a frequency spec-
trum, such as Band III for DAB broadcasts.

Helpful hints:
– You will receive DAB stations only within your
DAB transmission area.

DAB Broadcasters and DLS

Each DAB broadcaster (or multiplex opera-
tor) also provides text and audio data ser-
vices. Some programmes are supported by
Dynamic Label Segments (DLS). This is data
which you can read as scrolling text on your
DAB radio display. Some stations transmit the
latest news, travel, and weather, what's on
now and next, website addresses and phone
numbers.

For more information on digital radio cover-
age and services, please visit www.drdb.org

Basic operation

1 Press **ON•OFF** to power on the set.
➔ The LCD lights up.

2 Press **DAB•FM** to select DAB or FM mode.
➔ The radio will tune to a DAB station if DAB mode is selected.
➔ The radio will tune to a FM station if FM mode is selected.

3 To adjust volume, press **VOLUME** ∧ ∨.

4 To improv DAB/FM reception, extend and turn the telescopic antenna. Reduce its length if the signal is too strong.

• To further improve DAB reception, you may also perform manual tuning (See **Manual Tune**)

Helpful hints:
– If there is no DAB coverage currently available, or DAB signal is too weak, in your area, no DAB station will be found, and information like "Station not available" will be displayed.

Dimming LCD brightness

1 Press and hold **INFO** for 2 seconds to switch Dm on or off.
➔ Auto dim on will be activated if dim function is off in the last setting.
➔ Auto dim off will be activated if dim function is on in the last setting.

2 If Dim function is activated and there is 15 seconds of button inactivity, the LCD brightness will be decreased to save power. Pressing any button will resume the original LCD brightness.

Switching on DAB radio

For the first time when DAB mode is switched on, AJ5100 will perform an auto scan (see ②). Then all the available DAB stations will be stored on the set, and the radio will tune to the first available station.

1 Press **ON•OFF** to power on the set.
➔ The LCD lights up.

2 Press **DAB•FM** to select DAB mode if "FM" is displayed.
➔ "**Philips DAB & FM Radio**" is displayed briefly (see ③), then the radio auto tunes to a station.

Changing DAB stations

1 In DAB mode, press ◀ / ▶ repeatedly until your desired station name is displayed.
➔ The selected station name appears on the second line of the display.

2 Press **SELECT** to confirm.
➔ The radio will immediately tune to the selected station.

About station display symbols

You may see some symbols displayed before the station names as follows:

♥ : The symbol indicates that the station is one of ten most-listened stations by you based on DAB radio's monitoring.

? : The symbol indicates that the station is not currently available, or not active.

>> : This symbol indicates that the station is a primary station with secondary service.

<< : This symbol indicates that the station is a secondary station.

Scanning for DAB stations

New stations and services will be regularly added in the DAB broadcast. To make new DAB stations and service available on your DAB radio, a search is needed.

DAB Scanning:

• In DAB mode, press **SCAN** to perform a search for DAB stations.

Storing DAB presets

You can preset up to 10 DAB stations on the 10 preset buttons each for easy access.

1 In DAB mode, In DAB mode, press ◀ / ▶ repeatedly until your desired station name is displayed.

• To select desired DAB station, you may also perform manual tuning (see **Manual Tune**).

2 Press and hold one of the **preset buttons (1-5)** on the top of the set to store the preset.
➔ "**Station Saved**" is displayed briefly on the second line of the display. and the stored preset number will be displayed.

• To save on **presets 6-10**, first press **SHIFT**, then press and hold the desired preset button for 2 seconds.

Helpful hints:
– If you have already saved a DAB station in that preset location, it will be overwritten by a new station.
– When you store DAB stations, these do not overwrite your FM presets.

Selecting a preset DAB station

1 In DAB mode, press a preset button on the top of the set to select presets **1-5**.

• To select one of presets **6-10**, first press **SHIFT**, then press the desired preset button.

Helpful hints:
– If you have not yet stored a DAB station in one of the presets, "Empty preset" will be displayed. The display will revert to the previously selected station after a few seconds.

Resetting to the factory setting (also available in FM mode)

Resetting to the factory setting will delete all of the preset stations.

1 In DAB or FM mode, press and hold **MENU**.
➔ "Press SELECT to confirm reset" is display.

2 To reset, press **SELECT**.
➔ All the presets will be deleted, and "Philips DAB & FM Radio" is displayed.

• To not to reset, wait a few seconds until "Press SELECT to confirm reset" disappears.
➔ The radio will revert to the previous operating status.

Changing the DAB station information

In DAB broadcasting, on the display, the first line shows a station name, and the second line shows the service information for the current station. You are offered with 7 types of information.

* Press **INFO** repeatedly to cycle through the display information in the sequence as follow (See 7, take "BBC Radio 5 Live" as an example of a station name):

  ①: **Dynamic Label Segment (DLS)**: This is scrolling text information supplied by the DAB station, such as music titles or details of the programme.

  ②: **Program Type (PTY)**: This is a description of the type of programme, provided by the DAB station and the broadcaster.

  ③: **Multiplex Name**: This will show the multiplex that is broadcasting the programme you are listening to.

  ④: **Time and Date**: This displays the time and date, provided by the broadcaster.

  ⑤: **Channel and Frequency**: This displays the channel number and the transmission frequency.

  ⑥: **Signal information**: This shows the digital bit-rate and the signal mode.

  ⑦: **Signal Error Rate**: If the transmisstion signal contains errors, the system can apply correction. The amount of signal correction can be displayed as a numerical value between 0 and 99. As the value increases, the signal will be degraded. To improve reception, try adjusting the position of the antenna.

Using the MENU control

The menu control lets you access the DAB radio setup options.

1 In DAB mode, press **MENU** to enter the menu options.
   ➔ The first setup option "Manual tune" is displayed.

2 Press ◄ / ► to scroll up and down the menu options:

   Manual tune - > **DRC value** -> **Trim Station** - > **Sw version**

3 To select an option, press **SELECT**.

4 Repeat steps **2-3** if sub-option is available under one option.

Manual tune

By using this feature, it is possible to manually tune to a specific channel/frequency. In addition to antenna orienting for better radio reception, the optimum reception can also be obtained by using this feature.

1 In DAB mode, press **MENU** to display "**Manual tune**" option.

2 Press **SELECT** to make a selection.
   ➔ Display shows a channel and its frequency.

3 Press ◄ / ► repeatedly until desired channel/frequency appears.

4 Press **SELECT** to confirm the selection.
   ➔ The second line of the display shows the selected channel and its frequency. The first line of the display shows a rectangle. The position of the rectangle indicates the degree of signal strength (The further towards the right, the greater the signal strength. See 4).

5 Adjust the position of the antenna to obtain the optimum signal strength.

6 Press **SELECT** to return to normal display.
   ➔ You may press **INFO** to change the service information on the display.

Dynamic Range Control (DRC)

DRC adds or removes a degree of compensation for the differences in the dynamic range between radio stations. For example, a station broadcasting popular music may have a high level of compensation applied since the emphasis is on a constant high listening level, whereas a station broadcasting classical music will have little or no compensation as the listener requires all of the highs and lows in the music to define the detail.

There are three levels of compensation:
DRC 0: No compensation applied.
DRC 1: Maximum compensation applied (This is the default.).
DRC1/2: Medium compensation applied.

1 In DAB mode, press **MENU** to enter menu options.

2 Press ◄ / ► repeatedly until "**DRC value**" is displayed.

3 Press **SELECT** to enter the sub-menu.
   ➔ The current DRC level will be displayed on the first line.

4 Press ◄ / ► to select a DRC value (DRC 0, DRC 1 and DRC1/2) displayed on the second line.

5 Press **SELECT** to confirm the selection when the requied value is displayed.
   ➔ You should be able to hear the difference in compression immediately.

Helpful hints:
– The best way to determine which of these DRC value settings suits you best is to experiment with them on a variety of source material.

Trim Station

Selecting this option will clear up the DAB selection list stored on your radio by removing in-active DAB station(s) which cannot be currently received.

1 In DAB mode, press **MENU** to enter menu options.

2 Press ◄ / ► repeatedly until "**Trim Station**" is displayed.

3 Press **SELECT** to confirm the selection.
   ➔ The inactive DAB station(s) will be cleared up.

Helpful hints:
– Performing a DAB scan will restore the cancelled station(s) to the selection list if the station(s) become(s) activated again.

Software version

This is only provided as the version number for this product.

FM Radio

Switching on FM radio

1 Press **ON•OFF** to power on the set.
➜ The LCD lights up.
2 Press **DAB•FM** to select FM mode if "FM" is not displayed.
➜ Waveband and radio frequency are displayed (see ⑤).

Tuning to radio stations

1 In FM mode, press **SCAN** until frequency number starts running.
➜ The radio will auto tune to a station of strong signal strength, and search will stop.
2 To tune to a weak station, press ◄ / ► until an optimum reception is found.
3 Repeat the steps above until you find the desired station.

Helpful hints:
– Befor pressing **SCAN**, you may first press ►
to select a scan up, or press ◄ to select a scan down.

Storing FM presets

You can store up to 10 FM stations on the 10 preset buttons each for easy access.

1 In FM mode, tune to your desired radio station (Refer to "Tuning to radio stations").
2 Press and hold one of the **preset buttons (1-5)** on the top of the set to store the preset.
➜ "**Station Saved**" is displayed briefly on the second line of the display, and the stored preset number is displayed (see ⑥).
• To save on **presets 6-10**, first press **SHIFT**, then press and hold the desired preset button for 2 seconds.

Helpful hints:
– If you have already saved a FM station in that preset location, it will be overwritten by a new station.
– When you store FM stations, these do not overwrite your FM presets.

Selecting a preset FM station

1 In FM mode, press a preset button on the top of the set to select presets **1-5**.
• To select one of presets **6-10**, first press **SHIFT**, then press the desired preset button.

SLEEP

Sleep

The DAB radio has a built-in sleep timer, which enables the set to be automatically switched off during radio playback after a set period of time.

Setting and activating the sleep timer

1 Switch on DAB or FM radio.
2 Press and hold **SELECT** for 2 seconds to enter the timer setting mode (See ⑧).
3 Press ◄ / ► repeatedly to select your desired timer option.
➜ The selections are toggled as follows (5 minutes as a step):
$90 → 85 → 70 → 65 → 60... → 10 → 5 →$
$SLEEP\ OFF$
4 Press **SELECT** to confirm the selection.
5 The set will be switched off at the selected time.

To deactivate the sleep function

1 In the timer setting mode, press ◄ / ► repeatedly until "Sleep Off" is displayed.
2 Press **SELECT** to confirm the selection.

Safety & Maintenance (See ⑨)

Safety & maintenance information

• Place the set on a flat, hard and stable surface so that the system does not tilt.
• Do not expose the set, batteries, CDs to humidity, rain, sand or excessive heat caused by heating equipment or direct sunlight.
• The apparatus shall not be exposed to dripping or splashing.
• Adequate ventilation with a minimum gap of 15cm (6 inches) between the ventilation holes and surrounding surfaces is necessary to prevent heat build-up.
• Do not cover the ventilation openings with items such as newspapers, table-cloths, curtains, etc.
• No objects filled with liquids, such as vases, shall be placed on the apparatus.
• No naked flame sources, such as lighted candles, should be placed on the apparatus.
• The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.
• To clean the set, use a dry cloth. Do not use any cleaning agents containing alcohol, ammonia, benzene or abrasives as these may harm the housing.

Troubleshooting

If a fault occurs, first check the points listed below before taking the set for repair.
If you are unable to remedy a problem by following these hints, consult your dealer or service centre.

WARNING: ***Do not open the set as there is a risk of electric shock. Under no circumstances should you try to repair the set yourself, as this will invalidate the guarantee.***

Problem

– *Possible cause*
• Remedy

The radio has no power.

– *Power adaptor not securely connected.*
• Connect the power adaptor properly.
– *Batteries dead/ incorrectly inserted.*
• Insert (fresh) batteries correctly.

No sound is heard.

– *Volume not adjusted.*
• Adjust the VOLUME.
– *Headphones connected to the set.*
• Disconnect headphones.
– *The station is currently out of service.*
• Wait until the service resumes, or tune to a new station.

The indication "No station available" is displayed.

– *DAB coverage is currently not available in your area.*
• Wait until the coverage resumes.
– *DAB signal is weak.*
• Re-locate the radio, or adjust the position of the telescopic antenna.

The indication "Station off air" is displayed.

– *The station is currently out of service.*
• Wait until the service resumes. Or, perform a scan by pressing **SCAN** in DAB mode.

Poor reception

– *Signal strength is weak.*
• Re-locate the radio, or adjust the position of the telescopic antenna. For DAB, you may also perform manual tuning. See **Manual tune**.

I cannot hear the DAB station I have selected.

– **SELECT** *button was not pressed after changing a station by pressing* ◄ / ►.
• Press **SELECT** button to tune to the selected station.

Note:

In case of malfunciton due to electrostatic discharge, just reset the product (Reconnect of power source may be required.) to resume normal operation.

Hearing Safety

Listen at a moderate volume.

• Using headphones at a high volume can impair your hearing. This product can produce sounds in decibel ranges that may cause hearing loss for a normal person, even for exposure less than a minute. The higher decibel ranges are offered for those that may have already experienced some hearing loss.

• Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So after prolonged listening, what sounds "normal" can actually be loud and harmful to your hearing. To guard against this, set your volume to a safe level before your hearing adapts and leave it there.

To establish a safe volume level:

• Set your volume control at a low setting.

• Slowly increase the sound until you can hear it comfortably and clearly, without distortion.

Listen for reasonable periods of time:

• Prolonged exposure to sound, even at normally "safe" levels, can also cause hearing loss.

• Be sure to use your equipment reasonably and take appropriate breaks.

Be sure to observe the following guidelines when using your headphones.

• Listen at reasonable volumes for reasonable periods of time.

• Be careful not to adjust the volume as your hearing adapts.

• Do not turn up the volume so high that you can't hear what's around you.

• You should use caution or temporarily discontinue use in potentially hazardous situations.

• Do not use headphones while operating a motorized vehicle, cycling, skateboarding, etc.; it may create a traffic hazard and is illegal in many areas.

Environmental information

All unnecessary packaging material has been omitted. The packaging can be easily separated into three materials: cardboard, polystyrene and plastic.

Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging, dead batteries and old equipment.

Disposal of your old product

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.

Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.