



AZAAN

RADIO COMMUNICATIONS LTD

PR-8000

Programmable Receiver

USER MANUAL

PR-8000

Professional, Portable & Programmable Receiver

- Ergonomic & Light Design
- LCD Display with Backlight
- 99 Channels
- Ultra-long Standby & Talk time
- Auto Power Save
- Superior Audio
- Easy On/Off/Volume Operation
- FM Radio
- Shock Proof
- Splash Proof
- Dust Proof
- 25kHz / 12.5kHz Switch
- CTCSS/CDCSS Signalling
- Wired Clone
- PC Programmable
- Programmable Keys



Azaan Online Service Centre

Azaan online network provides more information about support services for Azaan products.

More Detailed Product Information

Regularly updated information

New Products and Updates

See our website for the latest models, accessories and the latest information for new and existing products.

For more information, please visit:

www.azaanradiocomms.co.uk

Azaan's Professional Technical Support

User Manual and Brochures

These can be downloaded or read online at our website:

www.azaanradiocomms.co.uk

Spare Parts and Accessories

Available from our online shop at:

www.azaanradiocomms.co.uk/accessories

Statement

Azaan Radio Communications endeavours to achieve accuracy and completeness of this manual. However, inaccuracies and omissions may sometimes occur, the right to interpretation is reserved to **Azaan Radio Communications**.

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SAFETY CAUTION

Please read rules below. Non observance of these rules may cause danger or violation of law.

- Using this Receiver must comply with regulations of local government.
- Turn off the Receiver before you enter places of flammable or explosive environment.
- Do not replace or charge battery pack in places of flammable or explosive environment.
- Turn off the Receiver before you approach blast area and detonator area.
- Do not use the damaged antenna which may cause lightly burn on skin.
- Only qualified technician are allowed to maintain this Portable Receiver. Do not disassemble the Receiver by yourself.
- To avoid problem caused by electromagnetic interference or electromagnetic compatibility, please turn off the Receiver in places with 'Wireless Communication Transmit Equipment Prohibited' mark, such as hospitals or other healthcare places. When taking a plane, turn off the Receiver if required.
- In a car with airbags, do not place the Receiver within possibly involved area when airbag expands.
- Do not expose the Receiver to direct sunlight or near heating devices for a long time.
- Keep the Receiver vertical and speak near the microphone during transmitting.
- Make sure that the antenna is 2.5 cm away from the body during transmitting if you carry the Receiver on your body.

PRODUCT INSPECTION

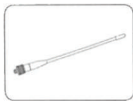
Thanks for using PR-8000 Portable Receiver. Before use, we recommend that;

- 1) First check the package for any signs of damage
- 2) Carefully open the package and identify the items listed below
- 3) If any items are missing or damaged during shipment, please contact your dealer

Items



1 x PR-8000



1 x Antenna



1 x Li-ion Battery



1 x Charger



1 x Belt Clip



1 x Lanyard



1 x User Manual

Note:

Frequency is marked on the colour circle at the bottom of antenna.

GET ACQUAINTED

Battery Information

Please charge with Azaan specified battery; using other batteries may burst and cause personal damage. The battery is not charged when out of factory. Please charge the new battery or the battery hasn't been used for a long time before use. Charge/discharge for 3 loops will make the battery to achieve the best performance. When you find the battery power is insufficient, please charge the battery or replace with charged one.

Note:

1. Do not short-circuit the battery terminals or dispose the battery in fire. Never attempt to disassemble the battery pack.
2. Charge the battery in 0-45°C temperature, otherwise the battery may not be fully charged.
3. Turn off the Receiver equipped with battery before charge. Use the Receiver while charging may interfere with charging.
4. Do not pull/plug the adapter and the battery during charging to avoid interfere with the charging procedure.

GET ACQUAINTED

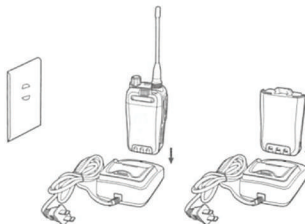
5. When the battery power consumes quickly even if it is fully and correctly charged, that means the battery life is over and please replace with new battery.
6. Do not charge if the battery or Receiver is wet. Before charge, you should dry it with a cloth to avoid danger

WARNING

Conductive metals such as jewellery, keys or decorating lace may result in short circuit and generate a large quantity of heat when coming in contact with battery electrodes. These conductive metals may form a short circuit and generate massive heat. Treat batteries carefully, especially when placing it into pockets, wallets or other metal containers.

Charge Operation

Please charge as follows:



GET ACQUAINTED

1. Turn off the Receiver.
2. Plug the AC connector of adapter into an AC outlet.
3. Insert the battery or Receiver equipped with battery into the charger. After charger is electrified, the LED glows red during charging. The battery is fully charged when LED glows green and the charging stops.

Antenna Information

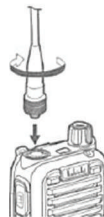
A short and wide antenna is suitable for short-distance communication, a thin and long antenna will provide best long range communication. The communication range may be shortened on rainy days or in a forest. Please make preparations for that.

Installing and Dismounting

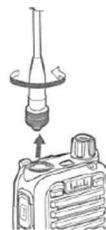
Installing / Dismounting The Antenna

When assembling the antenna, please put the threaded side of the antenna into the top threaded hole of the radio, screw it clockwise until fixed. (See figure 1)

When disassembling the antenna, unscrew the antenna anti-clockwise to remove it. (See figure 2)



(Figure 1)



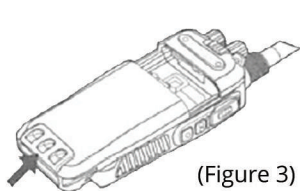
(Figure 2)

GET ACQUAINTED

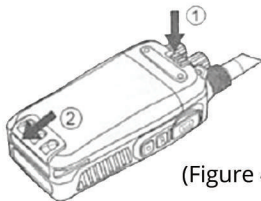
Installing / Dismounting The Battery

When assembling the battery, please align the battery pack notch to the corresponding rail on the back of aluminium case, ensure the battery pack and aluminium case are fully contacted and parallel to each other, and then slide the battery along the rail till the battery-lock button buckled. (See figure 3).

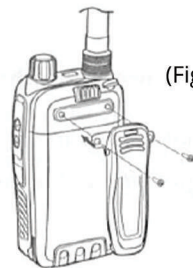
When disassembling the battery, please push the battery-lock button towards left-side and then push the battery out from the Receiver. (See figure 4)



(Figure 3)



(Figure 4)



(Figure 5)

Installing and Dismounting The Belt Clip

Make sure the two screw holes on the belt clip are matching the two screw holes on the Receiver, and then use the attached M2.5x5 screws to fix the belt clip on the Receiver. (See figure 5)

GET ACQUAINTED

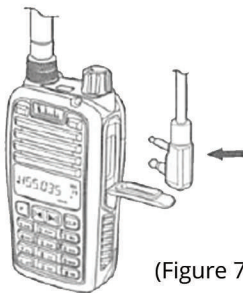
Installing / Dismounting The Headset / Microphone

Open (not remove) the headset / Microphone cover. (See figure 6)

Insert the headset / microphone to the jack port. (See figure 7)



(Figure 6)



(Figure 7)

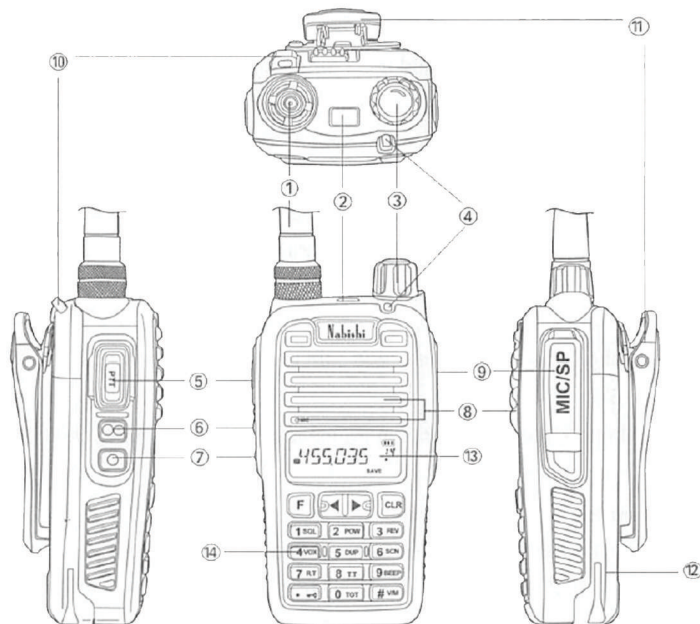
Installing / Dismounting The Lanyard

Thread the lanyard to the lanyard hole on the back of the upper right side of the Receiver. (See figure 8)



(Figure 8)

RECEIVER OVERVIEW



RECEIVER OVERVIEW

1. Antenna

The antenna comes with threaded plug and used for receiving and transmitting signals.

2. Top Key: Programmable Button

The default setting of this button is used for emergency alarm.

3. Power Switch / Volume Control Knob

It is used to turn on / off the Receiver's power and adjust the volume. Rotate the knob clockwise, the click sound indicates the Receiver is on; continue to rotate to adjust the volume. Rotate the knob anti-clockwise to turn off the Receiver with the click sound.

4. Status

The red light is on during transmitting. The green light is on during receiving.

5. Push-To-Talk Button

Press and hold PTT button, the Receiver is in transmitting status, the user can talk now. Release the button to go back in receiving status.

6. Side Key 1: MONI Button

Press and hold [MONI] for 1 second will activate the monitoring function. You can hear the voice message even the signalling code (CTCSS) is not matching the transmitter Receiver.

RECEIVER OVERVIEW

7. Side Key 2: Programmable Button

The default setting for this button is used for FM Radio function.

8. Speaker / Microphone

9. MIC-SP Jack / Data Port

Connect headset or programming cable

10. Lanyard Hole

It is used for lanyard.

11. Belt Clip

Connect the radio to the belt in order to make it easy to carry.

12. Li-ion Battery

13. LCD Battery

000.000

Frequency display

188

Channel of function number display

▬▬▬▬▬ 5 ▬▬▬▬ 9

Rx signal strength, Tx power level display

▬▬▬▬

Battery power level display

F

Function setting status

LO

Low power Tx Status

CT

CTCSS


RECEIVER OVERVIEW

DT	CDCSS
VOX	Voice control function
+	Higher than RF dispersion
-	Lower than RF dispersion
R	Reverse frequency function
SAVE	Power save mode
★	When the current channel is selected by scanning function
▲	BCL (Busy channel lock)

14. Keyboard

◀ + ▶	Change channel/frequency/parameters
0 - 9	Input frequency / channel number
F + 1SQL	Setting squelch levels
F + 2POW	Switching high / low power
F + 3REV	Setting reverse frequency
F + 4VOX	Setting VOX
F + 5DUP	Setting beat frequency
F + 6SCN	Scanning
F + 7R.T	Setting Rx CTCSS / CDCSS signalling
F + 8T.T	Setting Tx CTCSS / CDCSS signalling

RECEIVER OVERVIEW

F + 9BEEP	Turning prompt tone on / off
F + 	Storing channels
F + 0TOT	Setting TOT (Time-out timer)
F + #V/M	Setting keypad lock
CLR	Quit function operation interface, radio is back to the receive state.

BASIC OPERATION

Turning On / Off

Turn the Power Switch / Volume Control knob clockwise till a click is heard to turn the Receiver on and anti-clockwise to turn the Receiver off.



Setting The Volume

When the Receiver is on, rotate the Power Switch / Volume Control knob clockwise to increase the volume and anticlockwise to decrease the volume.



Note:

In Monitoring mode, you can monitor the background noise, and then set the volume.

BASIC OPERATION

Talking

To talk, press and hold [PTT]. For maximum clarity, hold the Receiver 5cm away from your mouth and speak directly into the microphone.

Listening

To listen, release [PTT].

Monitoring

Press and hold [MONI] to monitor the weak signals. It also can work with **Power Switch / Volume Control** knob to adjust the volume. Release [MONI] to go back to normal working condition.

Emergency Alarm

Press and hold [TK] till the alert tone is emitting from your own Receiver speaker. The key can be set to be either [TK] or [SK] through the software.

FM Radio

Press and hold [SK] to turn on the FM Radio function. The key can be set to be either [TK] or [SK] through the PC software.

SHORTCUT MENU OPERATION

Saving and Deleting Channels

To Save: When the Receiver is on, press **F** and ***->** alternatively, the right-side channel on the screen will flash, press **<** or **>** to select the wanted channel and then press **F** to save.

To Delete: When **#V/M** to select VFO or MR mode, turn the Receiver off. Press and hold **CLR** and then turn the Receiver on, "DEL?01" will appear on the screen, press **F** to delete, and press **<** or **>** to select the wanted channel.

Keypad Lock

1. Press and hold ***->** for 2 seconds until **!** displays.
2. When in lock mode, all buttons are locked, except [PTT] and [MONI].
3. To unlock the keypad, press and hold ***->** for 2 seconds again until **!** is no longer displayed.

Setting Squelch Level

1. Press **F** and **1 SOL** together, and then press **F** to display the current squelch level.
2. Press **<** or **>** to select squelch level, ranging from 0-9.
3. Press **F** to save, press **CLR** to quit without saving.

SHORTCUT MENU OPERATION

Switching High / Low Power

1. Press **F** and **2 POW**, and then press **F** to display the current power status.
2. Press **◀** or **▶** to select high / low power. "POW H" displays to show the Receiver is working at high power status, "POW L" displays to show the Receiver is working at low power status.
3. Press **F** to save, press **CLR** twice to quit without saving.

Setting Reverse Frequency

1. Press **F** and **3 REV**, "REV?03" displays on the screen to show the reverse frequency status. Then press **F**, "R" will appear on the screen to show the reverse frequency function is on.
2. Press **F** and **3 REV** to cancel the reverse frequency function.

Setting The Sensitivity Level In VOX Mode

1. Press **F** and **4 VOX** until "VOX?04" appears on the display, press **F** again to set sensitivity level.
2. Press **◀** or **▶** to select between 1-9 levels. The higher the level, the harder to open.
Select **OFF** to turn off this function.
3. Press **F** to save, press **CLR** twice to quit without saving.

SHORTCUT MENU OPERATION

Setting +/- Beat Frequency

1. Press **F** and **5 DUP**, and then press **F** to show current beat frequency status.
2. Press **◀** or **▶** to select beat frequency, "OFF" shows same frequency, "+" means to increase the frequency difference, "-" means to decrease the frequency difference.
3. Press **F** to save, press **CLR** twice to quit without saving.

Scanning

1. Press **F** and **6 SCN**, then press **F** to set scanning.
2. Press **◀** or **▶** to change the scanning direction.
3. In MR mode, the Receiver scans the channels step by step according to the set frequency step value.
4. Press **CLR** to quit.

Setting CTCSS / CDCSS Signalling

This function only works when in VFO mode.

1. Press **F** and **7 RT**, "C-CDC?07" appears on the screen, press **F** to display the current Rx CTCSS signalling.
2. Press ***->O** to quick select CTCSS, positive CDCSS, negative CDCSS or turn off CTCSS signalling.
Press **◀** or **▶** to select the needed Rx CTCSS code group.

SHORTCUT MENU OPERATION

3. Press **F** and **7 RT**, and then press **◀** or **▶** to select the 8th option, or directly press **F** and **8 TT**. "T-CDC?08" displays on the screen, press **F** to configure Tx CTCSS setting.
4. Press ***->** to quick select CTCSS, positive CDCSS, negative CDCSS or turn off CTCSS signalling, press **◀** or **▶** to select the needed Tx CTCSS code group.
5. Press **F** to save, press **CLR** twice to quit without saving.

Turning Prompt Tone On / Off

1. Press **F** and ***->**, then press **F** to show the current **Prompt Tone** status.
2. Press **◀** or **▶** to select, "ON" means **Prompt Tone** is on, "OFF" means **Prompt Tone** is off.
3. Press **F** to save, press **CLR** twice to quit without saving.

Setting TOT (Timeout Timer)

1. Press **F** and **0 TOT**, then press **F** to show current **TOT** status.
2. Press **◀** or **▶** to select the transmit time range, from **30 to 270S**, select "OFF" to turn off the **TOT** function.
3. Press **F** to save, press **CLR** twice to quit without saving.

ADVANCED OPERATIONS

Setting Power Saving

Press **F**, to select the 11th menu by pressing **◀** or **▶**, "SAVE?11" will appear on the screen.

Press **F**, to set **Power Save** function, select "ON" or "OFF" by pressing **◀** or **▶**, press **CLR** to save, press **F** twice to quit without saving.

Turning Backlight On / Off

Press **F**, select the 13th menu by pressing **◀** or **▶**, "LED?13" will appear on the screen, then press **F** to display the **Backlight** status. Press **◀** or **▶**, to select, "ON" means to turn on the backlight, "OFF" means to turn off the backlight, "AUTO" means the backlight will be turned on automatically by pressing any buttons and then off after 10 seconds. Press **F** to save, press **CLR** twice to quit without saving.

Scanning Channels

Press **F**, select 15th menu by pressing **◀** or **▶**, "SCRNS?15" will appear on the screen, press **F** to display the current scanning mode. Press **◀** or **▶**, to select the scanning mode, "TO" means **Time Operate Mode**, the radio stops scrolling at the channel with signal. It will resume scrolling when the time exceeds the set time length. "CO" means **Carry Operation mode**, the Receiver stops scrolling at the channel with signal.

ADVANCED OPERATIONS

It will resume scrolling when the signal disappears over the set time. “SE” means **Search Mode**, the Receiver stops scrolling at the channel with signal and quit. Press **F** to save, press **CLR** twice to quit without saving.

Priority Channel Scanning

You can set a priority channel through PC software. In **MR** mode, press **F**, then press **◀** or **▶** to select the 16th menu, press **F** to start scrolling from the priority channel, when the Receiver has reached the channel, it will stop at the channel for 5 seconds, then press **[PTT]** or **CLR** to stop scrolling and stay at this channel, press **CLR** to stop scrolling and go back to the previous channel.

Adding Scanning

1. In **MR** mode, press **F**, and press **◀** or **▶** to select the 17th menu. Press **F** to enter into **Add Scanning** interface, the screen display the current **Add Scanning** status.
2. Press **◀** or **▶** to select Add or Delete, “**ADD**” means to add, “**DEL**” means to delete.
3. Press **F** to save, press **CLR** twice to quit without saving.

ADVANCED OPERATIONS

Setting Wide / Narrow Band

Press **F**, press **◀** or **▶** to select the 18th menu, press **F** to set **Wide / Narrow Band**. Press **◀** or **▶** to select, "**WIDE**" displays to show wideband (25KHz), "**NARROW**" displays to show narrowband (12.5KHz), press **F** to save, press **CLR** twice to quit without saving.





Setting BCL

Press **F**, the press **◀** or **▶** to select the 19th menu, "**BUSY?19**" displays on the screen, press **F** and then press **◀** or **▶** to select BCL. "**OFF**" displays to show BCL is off, "**WAVE**" displays to show that, when receive signals, the Receiver is prohibited to talk by pressing [PTT], the prompt tone will sound. Choose "**CALL**" shows that when the Receiver is receiving signals and the CTCSS / CDCSS of the signals are different, pressing [PTT] key could not transmit means that the transmission has been prohibited, the prompt tone regarding this will be heard. Press **F** to save, press **CLR** twice to quit without saving.





Scanning Channels

1. Press **F**, then press **◀** or **▶** to select the 20th menu, press **F** to set **Frequency Step Value**.




ADVANCED OPERATIONS

2. Press  or  to select valve, the options are 5 options; 5HZz, 6.25KHz, 10KHz, 12.5KHz and 25KHz.
3. Press  to save, press  twice to quit without saving.

Setting Stopwatch

1. Press , then press  or  to select the 21st menu, press  to set **Stopwatch**. The shortcut key can be TK or SK1 set by PC software.
2. Press [SK] to start / stop **Stopwatch**, press [MONI] to clear, press [MONI] again to quit.

Power Level Indication

Press  first, then press  or  to select the 22nd menu, "CELL?22" will appear on the screen, screen to display the current power level, press any buttons to quit.

FM RADIO OPERATION

1. Press **F**, then press **◀** or **▶** to select 23rd menu. Press **F** to enter FM Radio function, press **F** and **2 POW** to quit.
2. **Storing Channels:** In **VFO** mode, press **F** until "F" appears at the right bottom corner of the screen, then press *** →**, the right side channel value flashes, press **◀** or **▶** to select the wanted channel, and then press **F** to store the channel.
3. **Deleting A Channel:** In **MR** mode, press **F** until "F" appears at the right bottom corner of the screen, then press **# V/M**, the right side channel value flashes, press **◀** or **▶** to select the wanted channel, and then **F** to delete.
4. **Channel Scanning:** Press **F** until "F" appears at the bottom right corner of the screen, then press **G SCM**, radio will begin to scroll. It will automatically save the channel with signals. The scrolling will store the channel from the first channel (it will cover previous saved channels). There are 19 channels to be stored.
5. **Portable Receiver Signal Receiving:** Press **F** until "F" appears at the bottom right corner of the screen, then press **1 SQL**, "ON" or "OFF" will appear on the screen, press **◀** or **▶** to select, "ON" means the Receiver will quit FM Radio mode temporarily where there are signals to receive. "OFF" means to not receive Portable Receiver signals.

OPTIONAL ACCESSORIES

We are able to provide more accessories according to your requirements, making your use to be more convenient and improve your work efficiency. All Azaan product accessories are made of high quality standard materials, which will make your Portable Receiver have better performance.



Antenna



Headset



Cloning Wire



Programming Cable

QUESTIONS AND ANSWERS

Problem	Solutions
No power	<ul style="list-style-type: none">• The battery power may be insufficient. Please fully charge your battery.• The battery may be installed incorrectly, please disconnect and reconnect your battery.
The battery power consumes quickly after charge	<ul style="list-style-type: none">• The battery life is finished. Please use a new battery.
Unable to communicate with other members	<ul style="list-style-type: none">• Please check if your frequency and CTCSS / CDCSS / 2 tone are the same with other members in your group.• You maybe too far. Please chrck if you are within communication range.
Voices of non-group members are heard on the channel	<ul style="list-style-type: none">• Please change CTCSS / CDCSS, and change those of your members too.
No sound when transmitting or sound is low for other member	<ul style="list-style-type: none">• Please check the volume and adjust as necessary.• Check if the microphone is in good condition.
Noise is always heard on the channel	<ul style="list-style-type: none">• You may be too far from other members. Please check if you are within communication range.

Maintenance

Your Receiver is a product with excellent design and technology. Please treat with care. These recommendations can help you effectively use the Receiver.

- Keep the Receiver dry. Rain, moisture or any liquid may cause damage.
- Do not throw, hit or vibrate the Receiver. Brutal treatment may damage the inner IC or other electrical components.
- Do not hold the Receiver by the antenna or external microphone.
- Please use original or standard antennas. Unapproved antennas or modifications of accessories may cause damage to the Receiver.
- Use lint-free cloths to clean the dust or stains on the Receiver.
- Use mild detergent (not corrosive chemicals) and cloth to clear the casing, control knob and keyboard after long-term use.



NOTE

All recommendations above also refers to your battery, charger and accessories. If any of them works abnormally, please send it to your nearest service centre.

SERVICE AND SUPPORT

Azaan Radio Communications guarantees that the product carries a warranty for the period metioned below. The Company will repair free of charge any part or parts of the product within warranty period and repair any part or parts of the product with charge out of warranty.

Service of Commitment

1. We, **Azaan Radio Communications**, (hereby referred to as **Azaan**) promise that; each native Azaan products and its accessories will be warranted from the date of purchase and when the products work under the normal use and maintenance condition. If the defect is due to the fault material or workmanship, products will be treated as following;
 - a) **Azaan PR-8000** Programmable Receiver body will be warranted with free of charge repair for 12 months from the date of purchase.
 - b) **Azaan PR-8000** Programmable Receiver accessories (antenna, battery and charger) will be warranted with free of charge repair for 6 months.
2. This warranty is not applicable in any of the follwing cases;
 - a) Defects of damages caused by improper use, or been used under unconventional conditions.
 - b) Defects of damages caused by improper use, accident, flooding, carelessness.
 - c) Defects of damages caused by incorrect test, operation, repair, install or adjustment.

SERVICE AND SUPPORT

- d) Antenna defects or damages caused by non-material or technique issue.
 - e) Battery has been short-circuited, or the seal of the battery pack is broken, or changed with a non-Azaan charger.
 - f) Defects or damages caused by unauthorised repair or disassemble.
 - g) Date of purchase or series number of the product has been removed or unclear.
Normal wear and tear.
3. To apply the free of charge repair or replacement of your product within warranty or repair of replacement with charge out of warranty, you have to post your defective product, original invoice, and warranty card to the Sales Office. If there are any inconveniences, please contact; Azaan Customer Service Centre, or go to the Azaan company website, or post directly.

Customer Service Centre

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