

Project 1: Fundamentals of Working with Data

# VISUALIZE AN OBJECT

Emma Murdock

VDES12550

# CONTENTS

1

Choosing an  
Object

2

Writing  
Instructions

3

Creating  
Illustrations

4

Typefaces

5

Layouts

6

Labelling

7

Colours

8

Details

9

References

10

Appendix

# CHOOSING AN OBJECT



## Pen and Mechanical Pencil

My first ideas for objects were a pen and a mechanical pencil. I thought these objects would work well because they are well known, can be taken apart and put back together easily, and have a good amount of simple parts to label.

However, once I began thinking about writing instructions for these objects I realized there were not enough steps and the steps themselves were too simple.



## Pen and Mechanical Pencil

My next idea was a sewing machine, as I have good knowledge of how it works and has more steps than a pen or mechanical pencil.

However once I quickly realized that there were far too many complicated steps and pieces to label.



## Cassette Player

I also thought of a cassette player as it doesn't have too many parts and is not too complicated to use.

My only concern was that in order for the cassette player to work, it needs a cassette tape; making my project technically about two objects instead of one.



## Cassette Tape

To go with the cassette player, next I went over the labels and steps that I would have to add to incorporate the cassette tape along with the player.

This added many more labels which I thought may make my product too busy and complicated.

# CHOOSING AN OBJECT



## Feedback

After showing my labelling and instructions of the various objects I chose, I received feedback in-class that the cassette player is the best option, and that the cassette tape does not need to be included in the full diagram to be labelled, just simply shown in the steps.

## Reducing complication

My next step was deciding which function of the cassette player I was going to show.

The player has both the capability to play cassette tapes and to play the radio. This would mean including two sets of instructions for the object; This, coupled with the fact that I was going to have to show multiple viewpoints of the cassette player, I thought would be too much information to show.

I decided to only show the instructions for the cassette player function as it is the primary function of the object.



# WRITING INSTRUCTIONS

I first wrote out the instructions while I was still deciding which object to choose so I ended up making instructions for both the cassette tape and the radio function. After I decided to focus only on the cassette function I went back and refined the cassette player steps and deleted the radio function steps.

## Cassette Steps

1. Open cassette player
2. Place cassette tape inside with open side facing down
3. close cassette player
4. press play button

Original Cassette function instructions

## Radio Steps

1. Change Radio/Tape switch to Radio
2. Select station preset or change station

Original Radio function instructions

## Refined instructions

1. Open the cassette player door
2. Place cassette tape inside and close the door
3. Plug headphones into the headphone socket
4. Check that Radio/Tape toggle is set to tape
5. Adjust the volume slider to your preferred volume
6. Press the play button and rock out!

## Refining instructions

My original cassette instructions only had 4 very simple steps that did not include the majority of the pieces I wanted to label, making having them labelled sort of redundant. So I added a few more steps, both making the instructions more encompassing and including more of the labelled pieces.

# CREATING ILLUSTRATIONS

## Realistic illustrations

I began by trying to make Illustrator illustrations that depicted the cassette player as realistically as possible, including light and shadow and discluding solid line around pieces and the object as a whole.

However, after many attempts and iterations using several different approaches, I found that while I was able to get my illustrations looking fairly realistic, I was not happy with the way they looked stylistically.



Realistic illustrations of the top view and front view of the cassette player.

## Research

I began by trying to make Illustrator illustrations that depicted the cassette player as realistically as possible, including light and shadow and discluding solid line around pieces and the object as a whole.

However, after many attempts and iterations using several different approaches, I found that while I was able to get my illustrations looking fairly realistic, I was not happy with the way they looked stylistically.

In order to find inspiration for the style I researched product illustrations from the same time period the cassette player is from. Specifically, I looked at instruction manual illustrations from the same brand: Philips.

I found that the illustrations were mostly just line illustrations, with the few color illustrations I found sticking to mostly flat greys, with the occasional bright color to highlight important aspects. As my cassette player is mostly greys with only a small amount of blue and orange, I found this style to be appropriate.

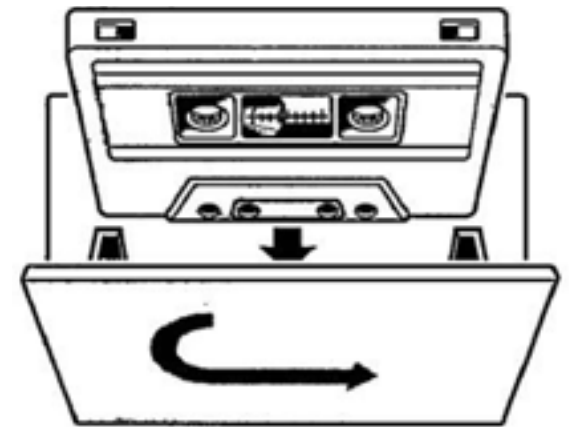


Illustration for the Philips AS 9510 instruction manual.

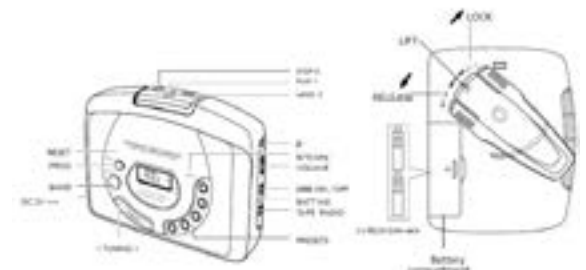


Illustration for my Philips Stereo Radio Cassette Player from the instruction manual.



Illustration for the Philips CD Player 100 instruction manual.

# CREATING ILLUSTRATIONS

## Stylizing

With a new style in mind, I created illustrations of the front, top, and side of my cassette player in full flat colour. I then made several variations of these illustrations in different greyscales and with and without line.

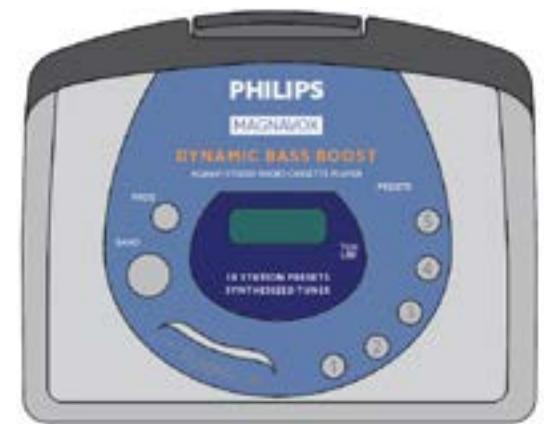
In comparing all these versions, I decided that line should be used, as it helped to differentiate different pieces of the cassette player; and that full color was better than greyscale, as I found that greyscale made the illustrations seem too clinical and not “fun” enough for the feeling I wanted my project to have.



Darker greyscale illustration with line.



Darker greyscale illustration with no line.



Lighter greyscale illustration with line.



Lighter greyscale illustration with no line.



Line only illustration.



Full color illustration with no line.



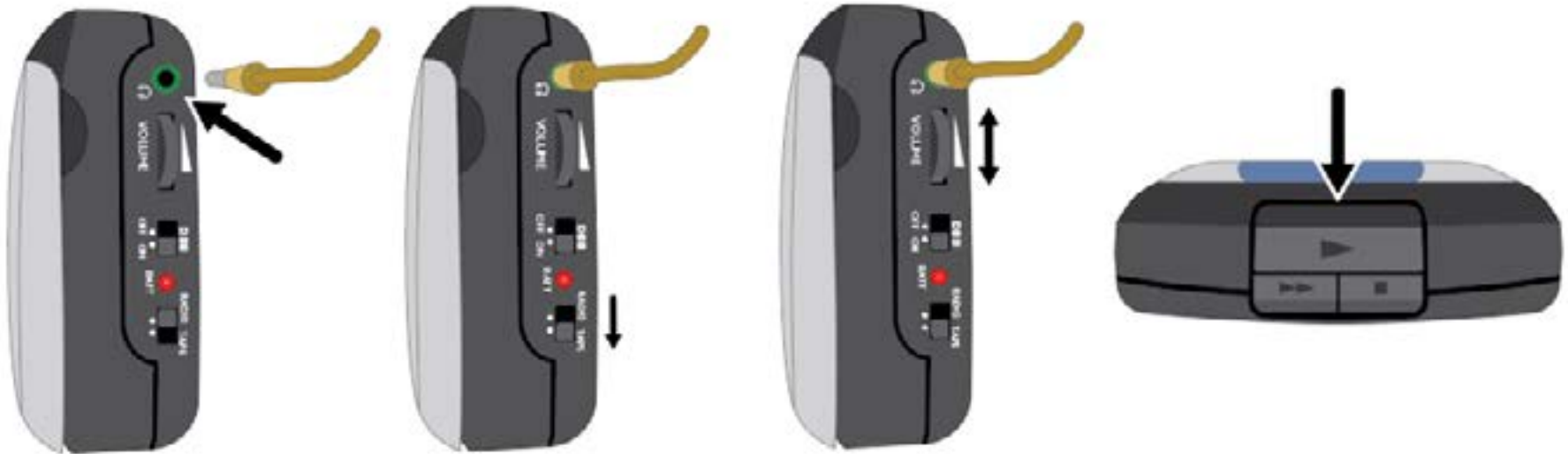
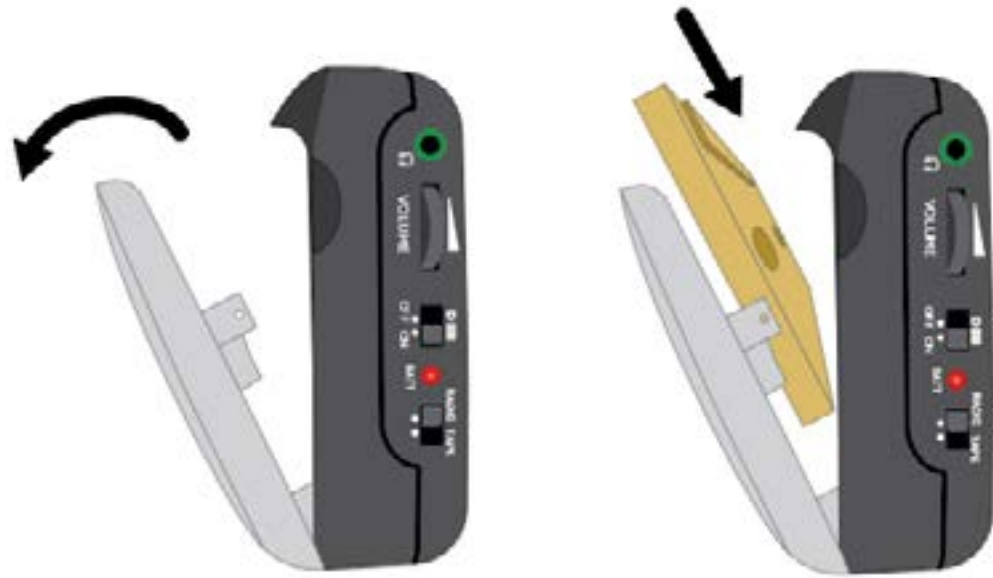
Chosen illustration: full color and line



# CREATING ILLUSTRATIONS

## Instructional illustrations

Next was creating illustrations for each step in the instructions. Since most of the steps feature pieces on the side of the cassette player I was able to keep a consistent image of the side view in 4 of the 5 steps. In keeping with the Small Multiples principle, this makes the instructions easier to understand.





# TYPEFACES

## Main text - Azo Sans Regular

I knew that my graphic was going to use at least two different typefaces: one for the title, and one for all the main text. I knew I wanted to have a very simple sans-serif typeface for the main text as I felt that it would fit the sort of funky and geometric design style of the era the cassette player is from. Luckily, the cassette player itself features sans-serif type, so I was able to find a typeface that closely matched the one already used.

## Title text - Gyparody Bold

For the title I wanted to find a display typeface, something so stylized that it could only possibly be readable in small portions, like a title. I noticed that lots of design from the 80's/90's time period the cassette player is from uses large, blocky, capital letters, so I found a variety of typefaces that fit the criteria, and put them on my different background color



Azo Sans Regular

THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG

the quick brown fox jumps over the lazy dog

0123456789

**GYPARODY BOLD**

**THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG**

**0123456789**



Examples of design from the era with large, blocky, capital letters.

# LAYOUTS

## Layout 1

I began by laying out the main illustrations. I put the side illustration on the right side of the front view, and the top view above it in order to simulate the real structure of the cassette player. With this layout of the main illustrations, I found that there was only room for the instructional illustrations in a vertical format. I liked this layout, it seemed unique and created left and right sectioning in the graphic, instead of the usual top and bottom sectioning. However, I found that I was not happy with the positioning of the title.



## Layout 2

The next layout I tried arranged the instructional illustrations horizontally. This did not leave enough vertical remaining space for the main illustrations to be arranged according to the physical structure of the object, so I rotated the top view illustration and placed it on the other side of the front view. I found that while this layout was functional, it did not evoke the same "fun" feeling that the asymmetry of the first layout did.



# LAYOUTS

## Feedback

In-class feedback suggested I change the title from being right aligned to left aligned, and move it the center of the page to emphasize the horizontal line the rough edge of the title creates. This made the overall look less messy and sectioned off the instructional illustrations better.



First version of layout with title right aligned.

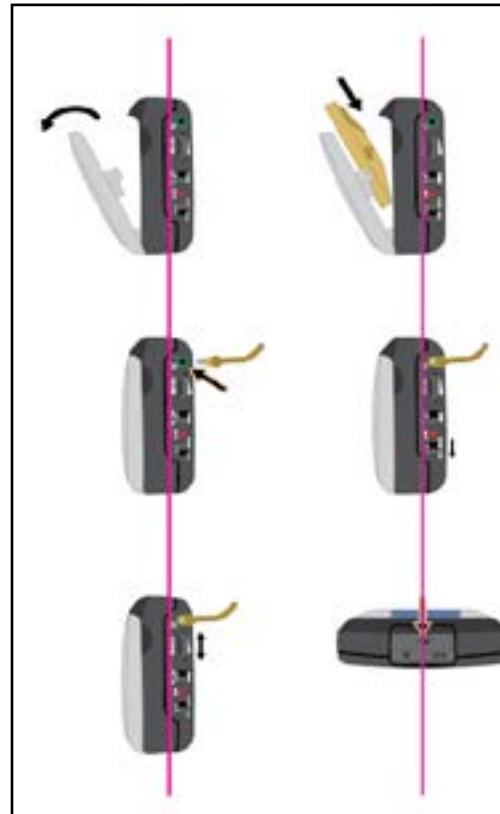


Second version of layout with title left aligned.

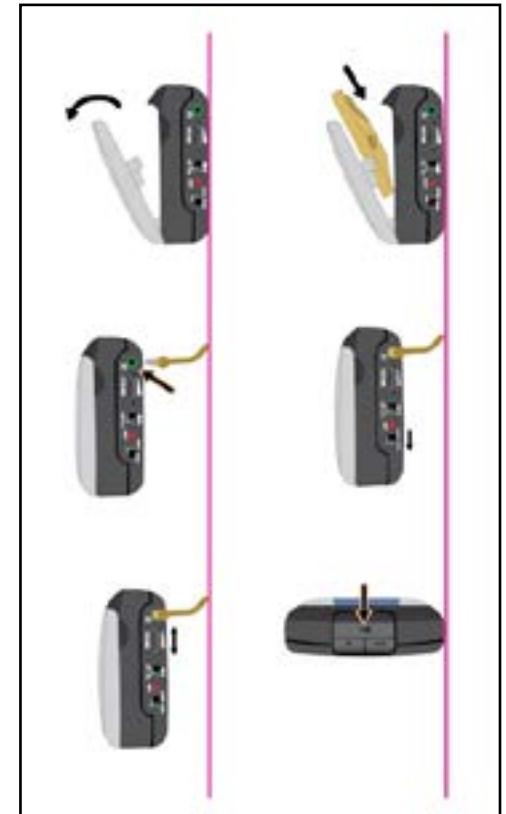
## Instructional illustration alignment

Next I had to find the correct way to align the illustrations. This proved to be a bit of a challenge due to the protruding pieces of the illustrations, such as the arrows and headphone wire.

I tried both aligning the illustrations by their left-most edge and by the center of the cassette player. I found that aligning them by the center of the cassette player worked with the principle of Small Multiples to keep the illustrations consistent and as simple as possible.



Instructional illustrations aligned by cassette player center.



Instructional illustrations aligned by left-most edge.

# LABELLING

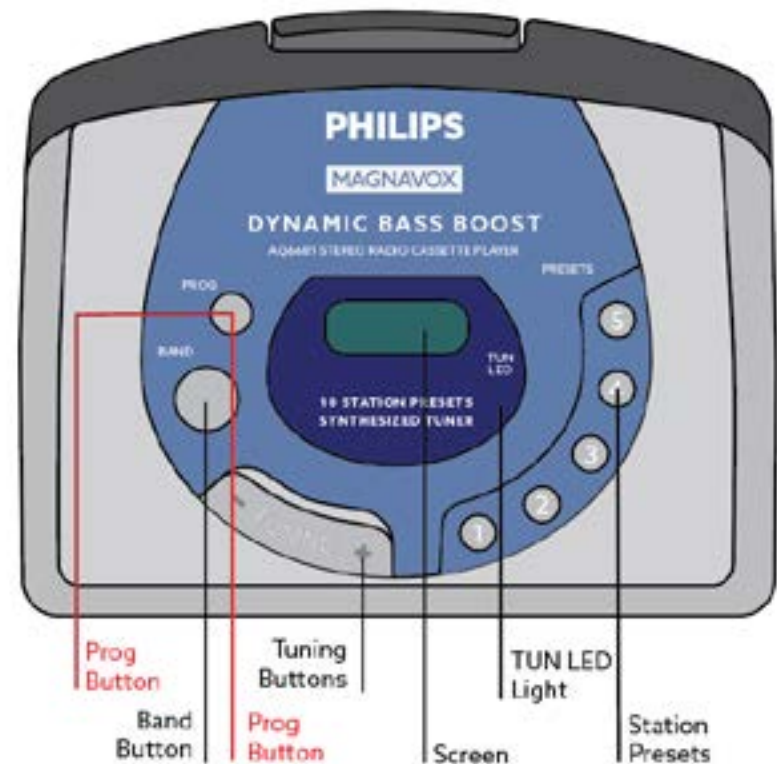
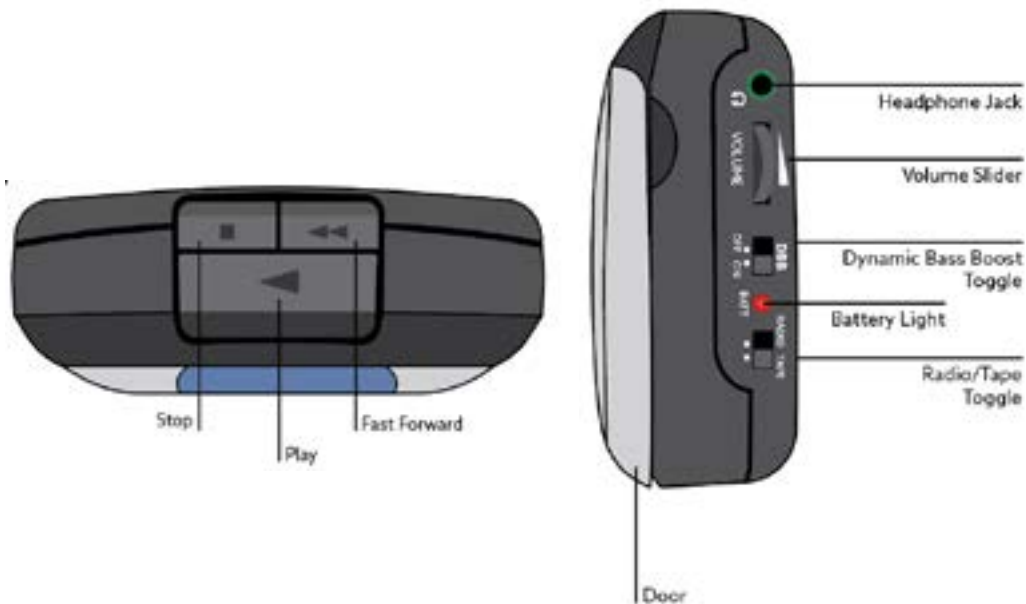
Given the layout of my graphic, the area that the labels could be were limited. The labels for the front view could only be below it, the labels for the side graphic to the right of it, and the labels for the top view below it.

With these areas established I then just had to find spacing for the lines so that they could be perfectly vertical or horizontal and touch the piece they label.

I decided to go with all vertical or horizontal lines instead of diagonal. Though I thought diagonal lines would bring movement and a "fun" aspect, I also felt that they would make the graphic seem messier.

## Feedback

In class I asked for feedback on the one label I was having trouble with: the Prog Button label. I had two possible options for where the line and label could be placed (shown in red in image) but was unsure of which one to choose. The bent line made the labels less squished, however it was also the only bent line of all the labels, making it out of place. Feedback suggested that the bent line was better as it allowed more room for the other labels.





# COLORS

Next I created a series of canvases with different background colours and put the front illustration on it in order to see which color might work best.

I picked colours that were already used in the illustration, such as: the orange in the "Dyanmic Bass Boost" text, the grey of the outside, the blues of the front panel, and the dark teal of the screen. While I was still going to have to test

colors on the full layout to get a better idea of what they would look like on the final graphic, from this preliminary test I was able to see that I didn't like the way the greys and darker colors looked with the colours of the illustration.

The front-view illustration placed on different color backgrounds



# COLORS

## Background color

To choose the main background I made several copies of the layout with a different main color on each one. I found that I liked orange best as it gave the graphic a more “fun” feel and a look more consistent with the 80’s and 90’s time period the cassette player is from.

I also tried having more than one background color, but I found that it added too much noise to the graphic, taking away from the actual illustrations and instructions. I decided that having one main colors as the background, with any sectioning being done using variations on the brightness, would work best.



Variations of background colors I tried.

# COLORS

## Instructional illustration extras

I chose to make the “extras” in the instructional illustrations (the cassette tape and the headphone wire) the same blue as seen on the front of the cassette player. I felt this added harmony to the graphic as it carried the blue color throughout the more of the piece, instead of the blue only appearing once.

Instructional Illustrations featuring a headphone wire and a cassette tape, both in the same blue used on the Cassette Player.



## Instructional illustration arrows and labels

I chose white arrows over orange, blue, and black because I felt the graphic overall was too dark, and needed more light.

For this same reason I made the text of the labels white as well, as orange or black only darkened the overall look.

While the label text is white, I chose to make the label lines orange, as white lines were not very visible on the grey of the cassette player.



Orange label lines with white label text, and Instructional Illustrations with arrows of various colors.



# DETAILS

## Stripes

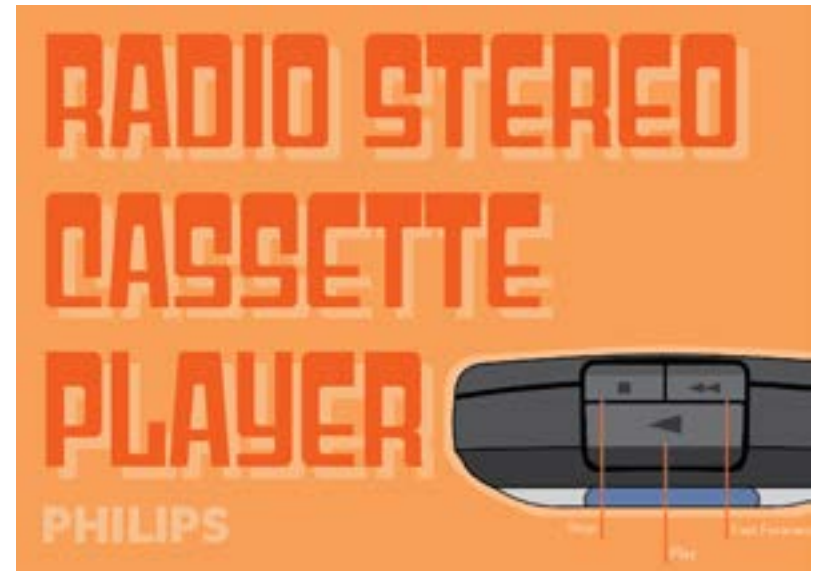
In order to keep with the time the cassette player is from, I chose to incorporate a stripe motif reminiscent of product posters and advertisements of similar products from the era. I decorated the left and right edges with stripes to frame the graphic.



Advertisements and graphic design featuring stripes for similar products from the same era.

## Title

In order to add more “pop” to the title and stylize it more, I added a drop shadow the same color as the instruction section. This was bright enough to be seen, but not too bright making it distracting.



## Instruction container

I chose to put the instructions on a separate color in order to distinguish them from the main illustration. In keeping with the stripe motif of the design, I wanted to extend the container the full vertical length of the page, however I felt that made the section look too separated from the main graphic.



# REFERENCES

Arbeu, Rui. Azo Sans , [fonts.adobe.com/fonts/azo-sans#fonts-section](https://fonts.adobe.com/fonts/azo-sans#fonts-section).

Larabie, Ray. Gyparody, [fonts.adobe.com/fonts/Gyparody](https://fonts.adobe.com/fonts/Gyparody).

Manuals Lib. "Installation; Checking the Power Supply; Taking out the Transit Screws; Sitting the Player - Philips CD 100 Manual [Page 3]." Manualslib, [www.manualslib.com/manual/340643/Philips-Cd-100.html?page=3#manual](https://www.manualslib.com/manual/340643/Philips-Cd-100.html?page=3#manual).

---. "Philips as 9510 Owner's Manual (Page 7 of 13) | ManualsLib." Manualslib, [www.manualslib.com/manual/775958/Philips-As-9510.html?page=7#manual](https://www.manualslib.com/manual/775958/Philips-As-9510.html?page=7#manual).

---. "PHILIPS VR838/05 OPERATING MANUAL Pdf Download." Manualslib, [www.manualslib.com/manual/176659/Philips-Vr838-05.html#product-VR838/02](https://www.manualslib.com/manual/176659/Philips-Vr838-05.html#product-VR838/02).

Manuals Online. "Philips Cassette Player AQ 6681/14 User Guide." Manualsonline.com, [audio.manualsonline.com/manuals/mfg/philips/aq\\_668114.html](https://audio.manualsonline.com/manuals/mfg/philips/aq_668114.html).

Mejia, Ronnie. "Work 2019 — Ronnie Mejia - Graphic Designer - Ronniemejia.ca." Ronniemejia.ca, 2019, [ronniemejia.ca/Work-2019](https://ronniemejia.ca/Work-2019).

"Philips CD100 CD Player | CDM-0 | Classic | Cdplayer." Wwww.vintagechief.com, [www.vintagechief.com/philips-cd100-cd-player-20872](https://www.vintagechief.com/philips-cd100-cd-player-20872).

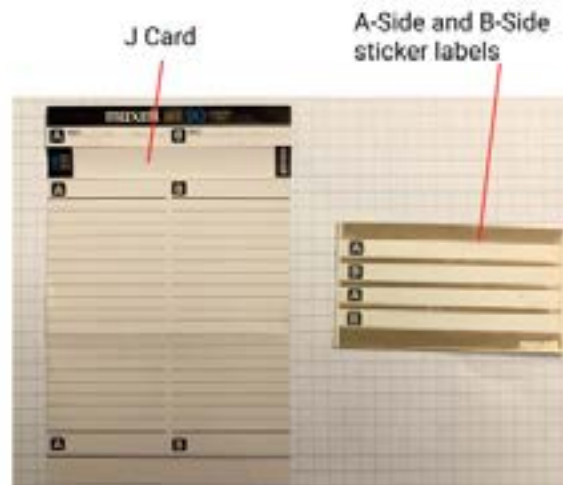
Sorene, Paul. "Blank VHS Cassette Packaging Design Trends: A Lost Art." Flashbak, 18 June 2018, [flashbak.com/blank-vhs-cassette-packaging-design-trends-art-402545/](https://flashbak.com/blank-vhs-cassette-packaging-design-trends-art-402545/).

warakami-vaporwave. "VHS Black Rainbow," Tumblr.com , 14 Dec. 2019, [warakami-vaporwave.tumblr.com/post/189673539741/vhs-black-rainbow-follow-me-on-instagram](https://warakami-vaporwave.tumblr.com/post/189673539741/vhs-black-rainbow-follow-me-on-instagram).

# APPENDIX

## Labelling and making instructions for various objects

### Cassette Tape



#### Steps

1. Take cassette tape out of cassette box
2. Place cassette tape in cassette player with the open side down
3. Press button with play symbol on cassette player

#### Notes

- Not suitable object on its own, would need cassette player to go with it
- Maybe not enough steps?
- Steps may be too simple/intuitive



Cassette Box

# Cassette Player

Screen

Tuning + and -

Radio station presets

Battery Slot

Removable clip



Stop Button

Fast-forward Button

Play Button



Headphone jack plug

Volume Slider

Radio/Tape switch

Battery indicator Light

Dynamic Bass Boost switch

## Cassette Steps

1. Open cassette player
2. Place cassette tape inside with open side facing down

3. close cassette player

4. press play button



Capstans

## Radio Steps

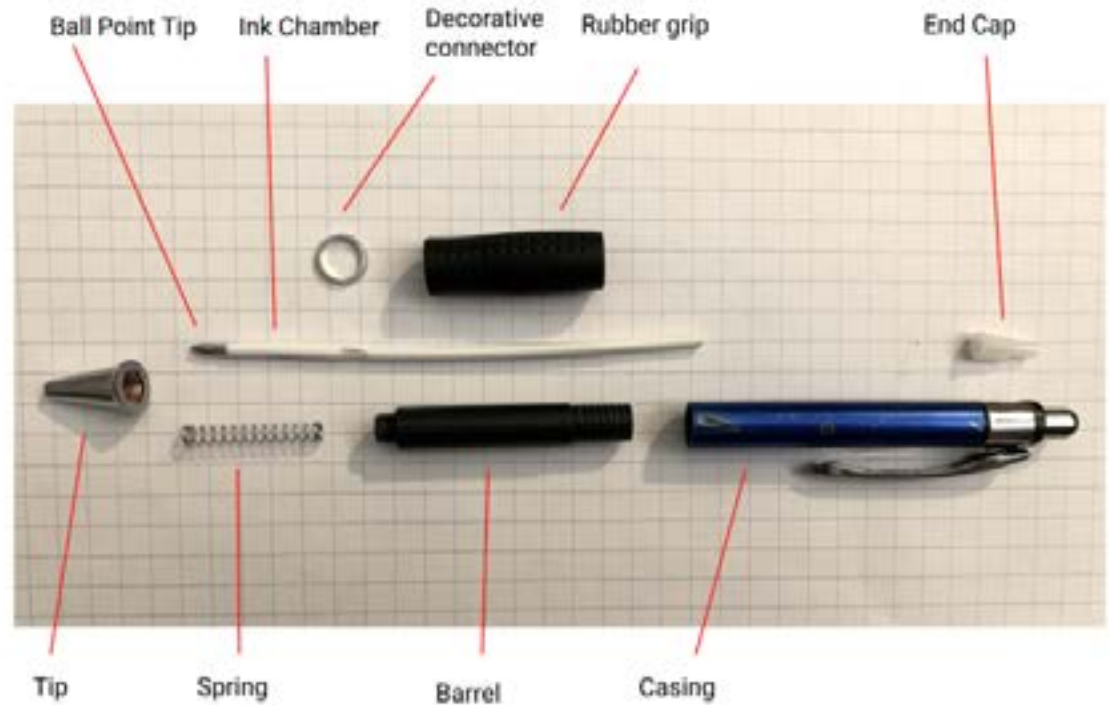
1. Change Radio/Tape switch to Radio
2. Select station preset or change station

## Notes

- Not suitable object on its own, would need cassette tape to go with it
- Steps may be too simple/intuitive



# Pen



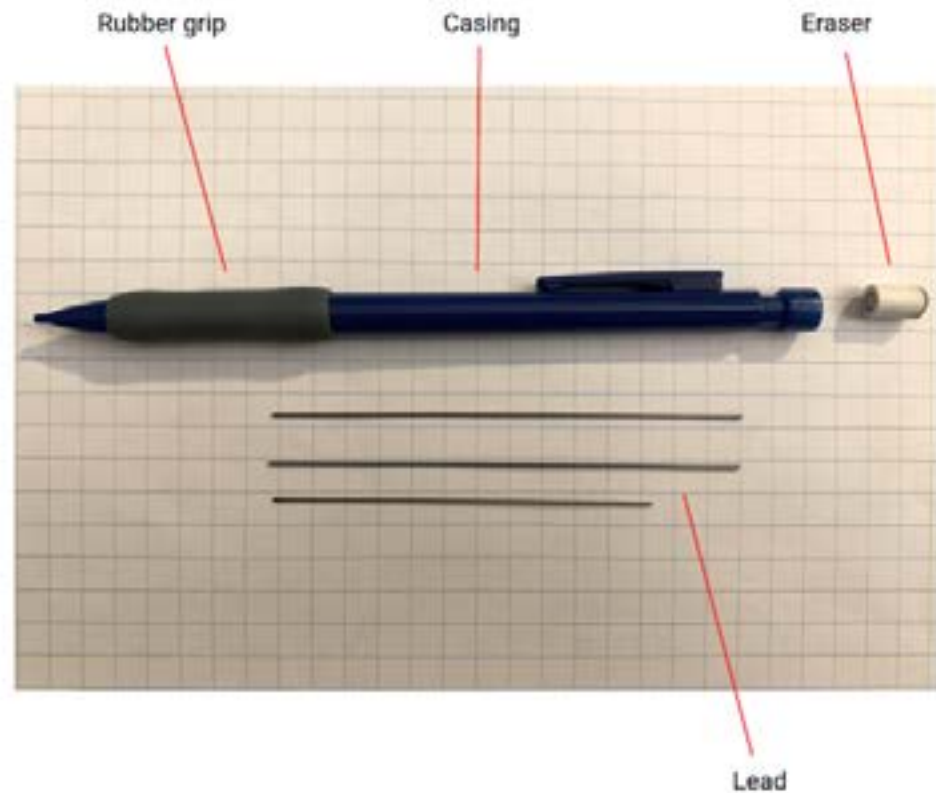
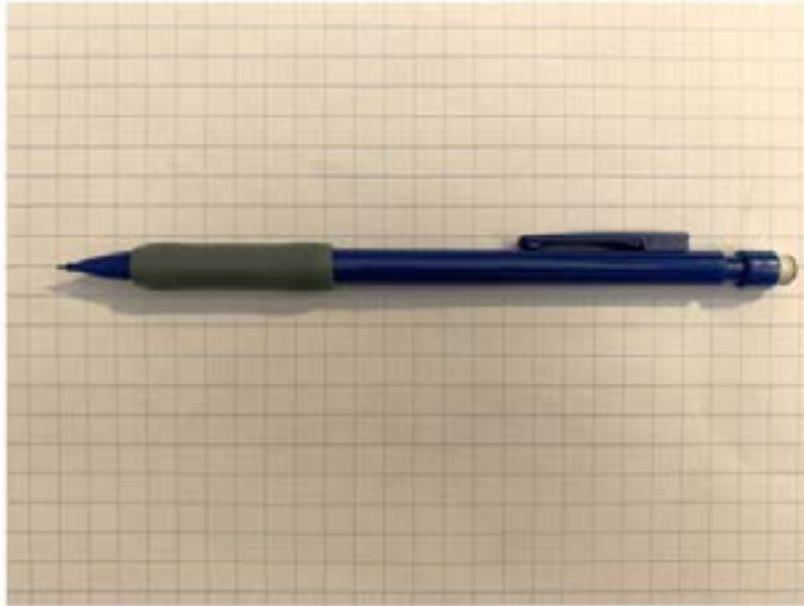
## Steps

1. Pick up pen
2. Write

## Notes

- Not enough steps
- Steps too simple
- Originally wanted to try this object because it was a common object that could be taken apart easily to show components

# Mechanical Pencil



## Steps

1. Pick up pencil
2. Write

## Notes

- Not enough steps
- Steps too simple
- Originally wanted to try this object because it was a common object that could be taken apart easily to show components

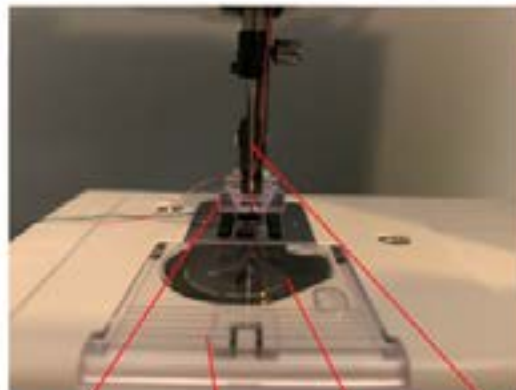
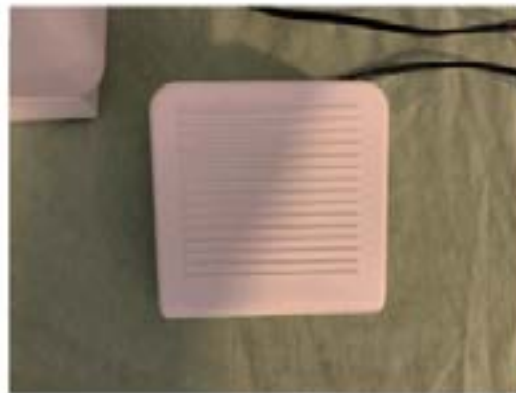
# Sewing Machine

## Steps

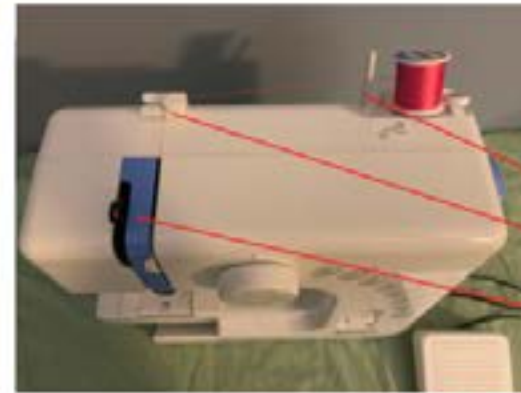
1. Place the Bobbin on the Spool Holder
2. Spin the Hand Wheel to raise the Take Up Lever
3. Put the thread through the Take Up Lever and follow the arrow on the Thread Guide
4. Put the thread through the needle
5. Place the smaller bobbin in the space under the Bobbin Cover
6. Pull the Thread through the Bobbin Tension Control and leave an end hanging out from the Bobbin area
7. Place the Bobbin Cover on
8. Place your fabric under the Presser Foot
9. Lower the Presser Foot
10. Press on the Foot Pedal to activate the machine and guide your fabric through

## Notes

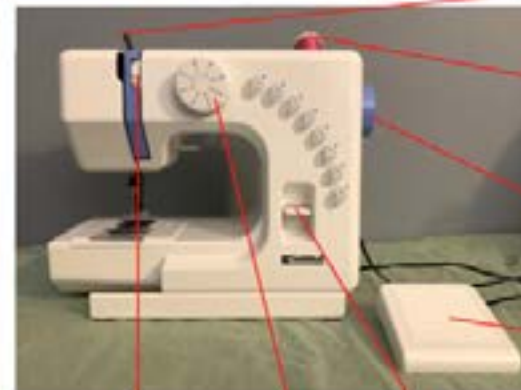
- Maybe too many steps
- Steps may be too complicated



Presser Foot      Bobbin Cover      Bobbin      Needle



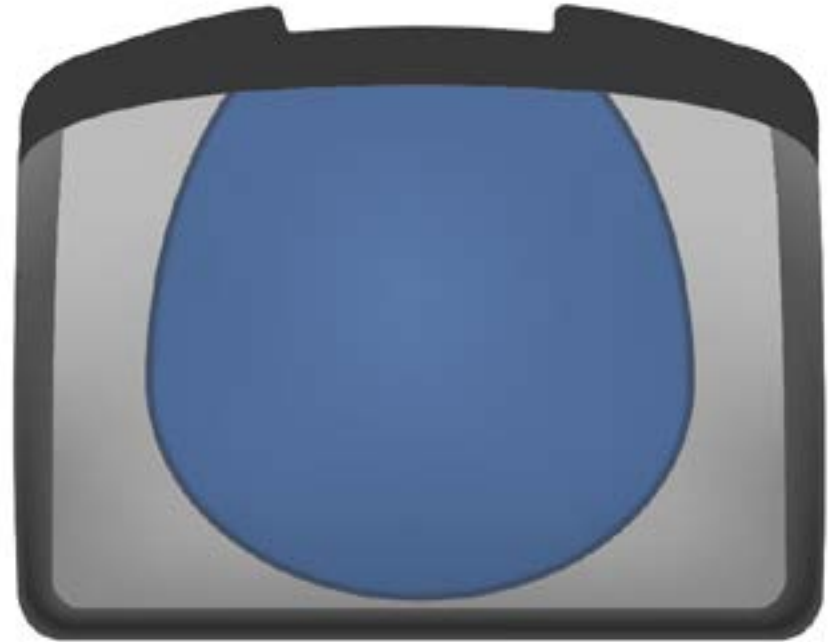
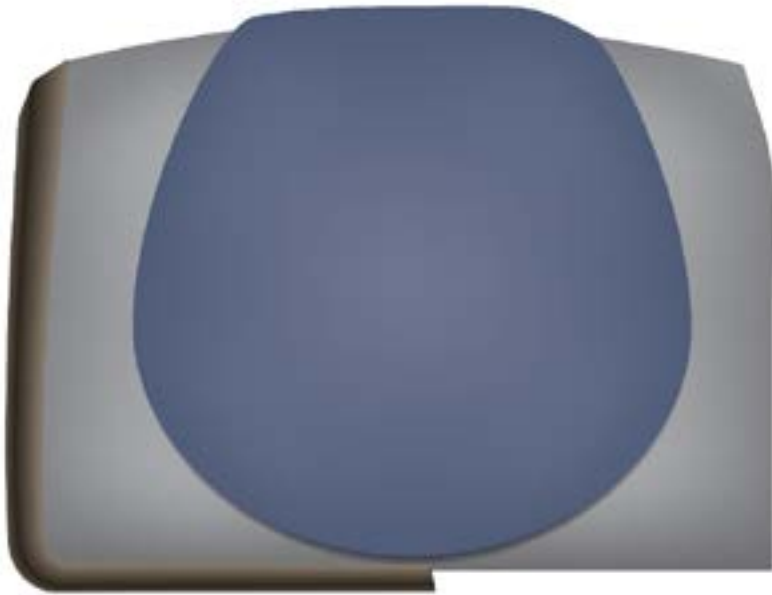
Spool Holder  
Tension Disc  
Thread Guide  
Take up Lever



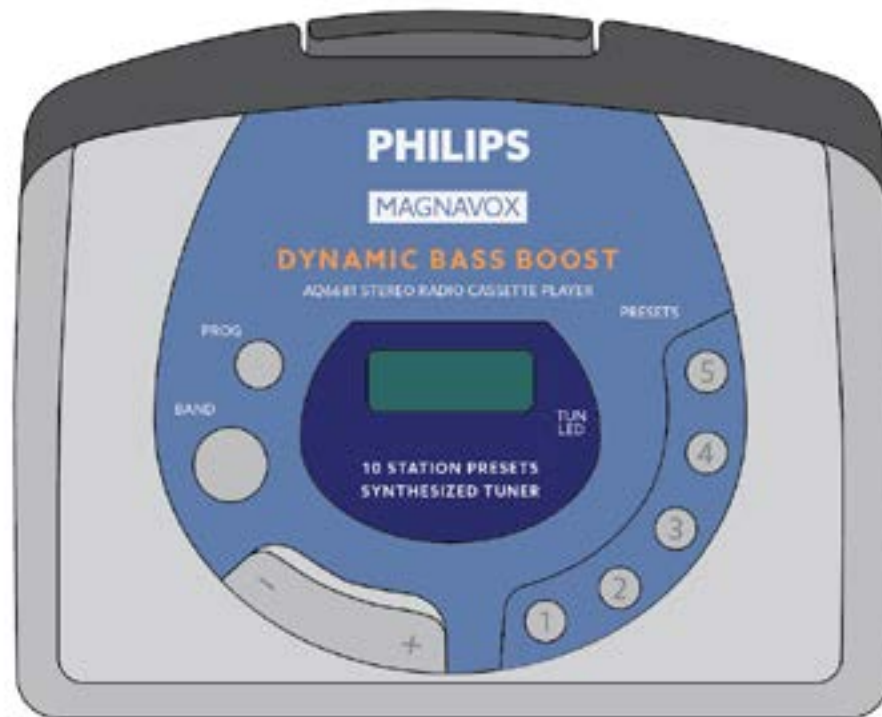
Bobbin  
Hand Wheel  
Foot Pedal  
Tension Control  
Stitch Selector Dial  
Reverse Lever



## Attempts at realistic illustrations



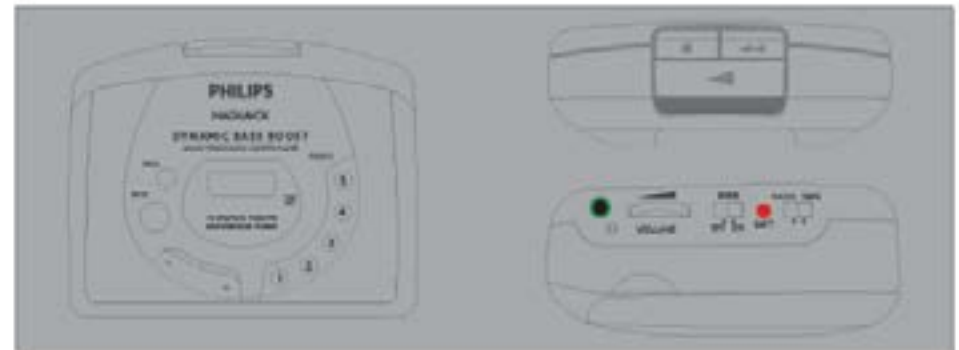
## Full Colour Illustrations



## Colour iterations of illustrations

Right: with line

Left: without line



## Instructional Illustrations





## Typeface testing

Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player

PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER

**Philips Stereo Radio Cassette Player**

**Philips Stereo Radio Cassette Player**

**PHILIPS STEREO RADIO CASSETTE PLAYER**

**PHILIPS STEREO RADIO CASSETTE PLAYER**

Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player  
Philips Stereo Radio Cassette Player

PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER  
PHILIPS STEREO RADIO CASSETTE PLAYER

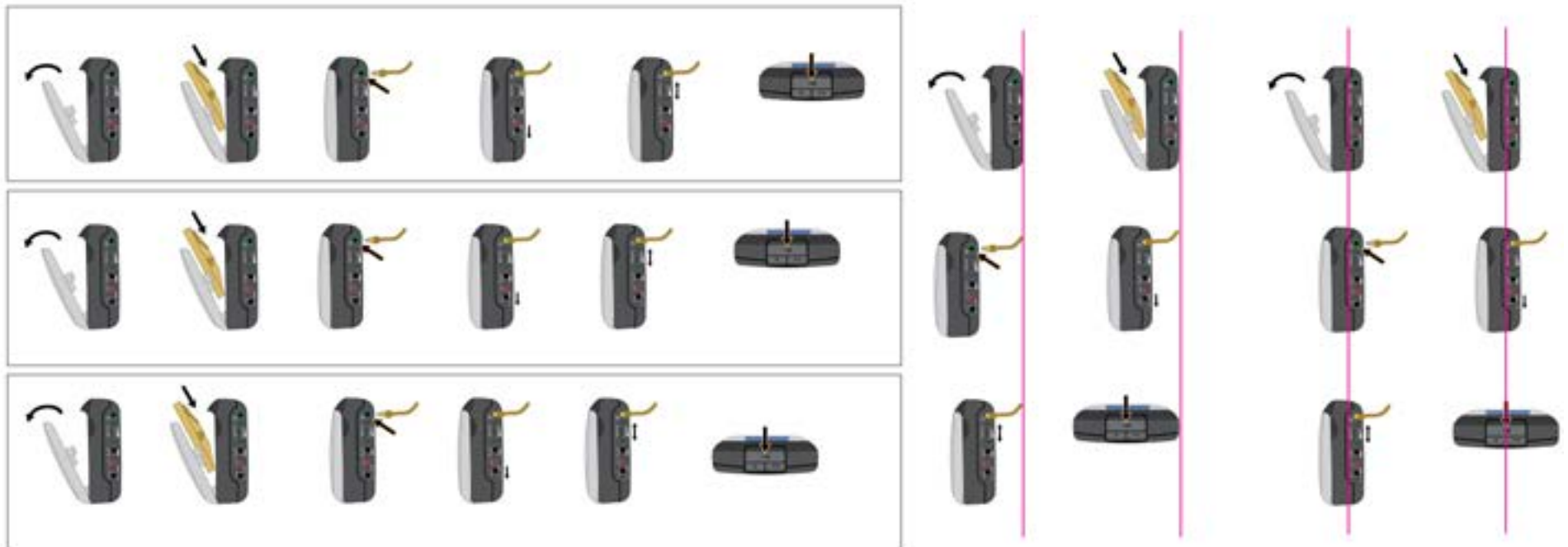
**Philips Stereo Radio Cassette Player**

**Philips Stereo Radio Cassette Player**

**PHILIPS STEREO RADIO CASSETTE PLAYER**

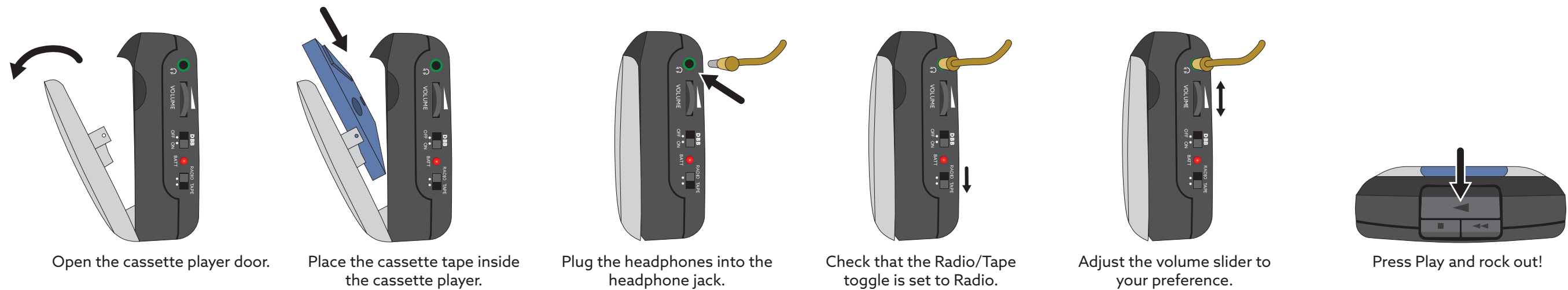
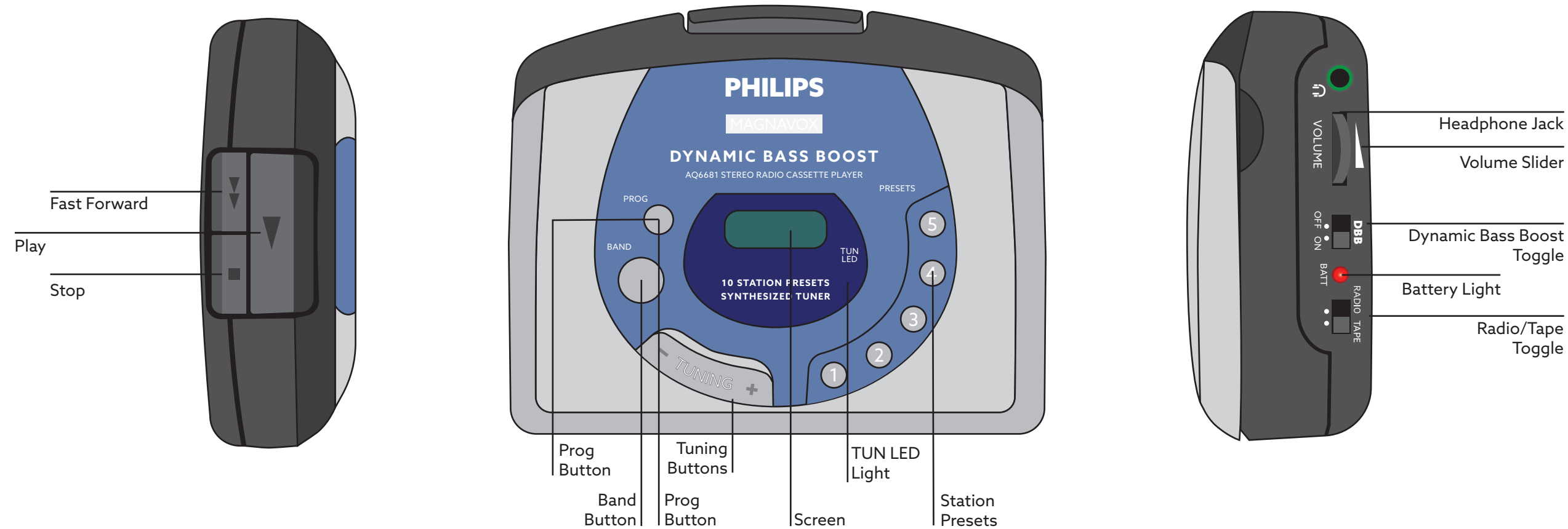
**PHILIPS STEREO RADIO CASSETTE PLAYER**

## Aligning Instructional Illustrations iterations



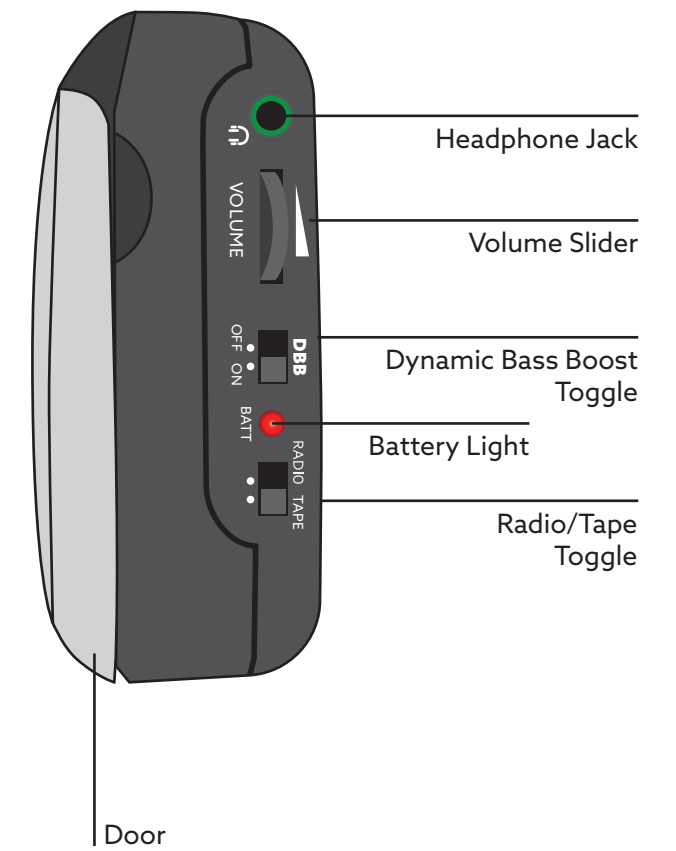
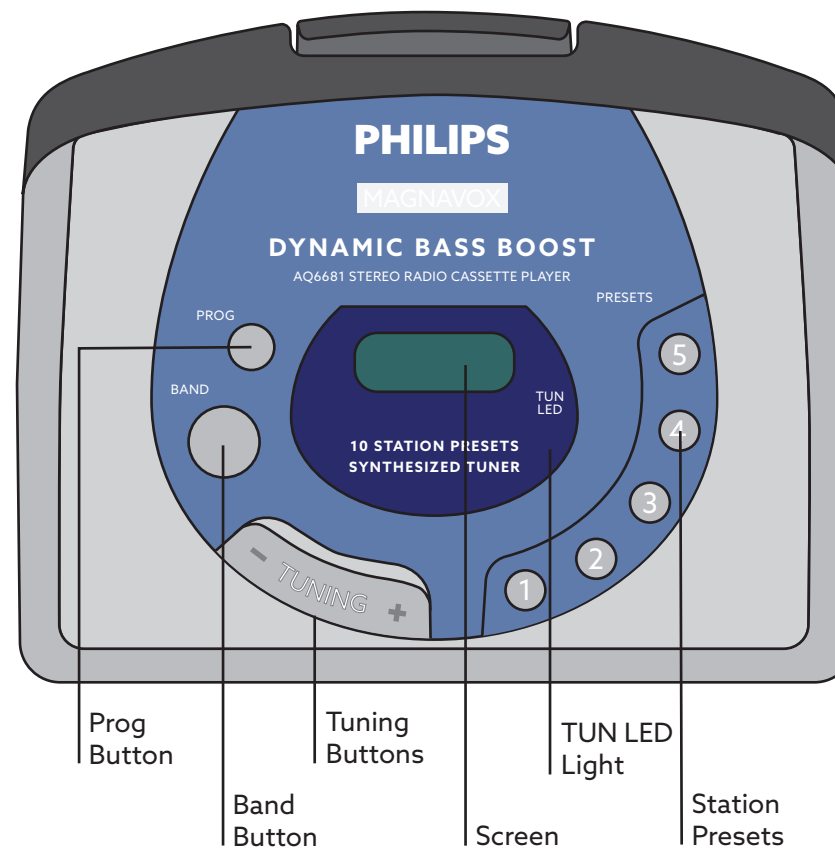
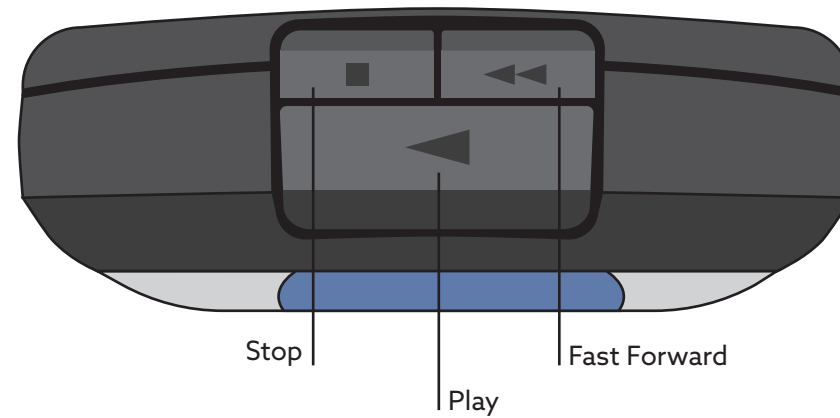
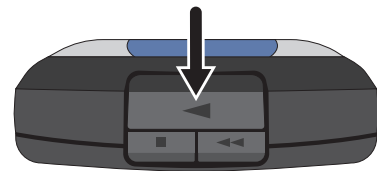
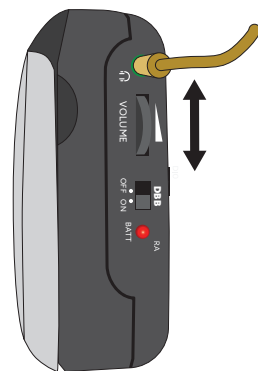
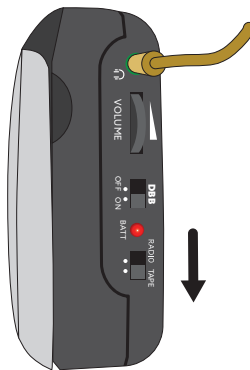
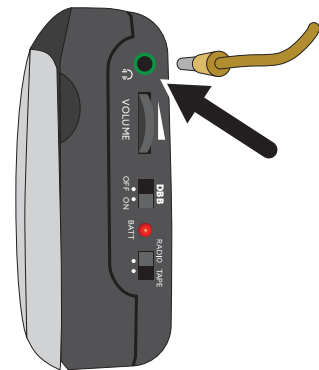
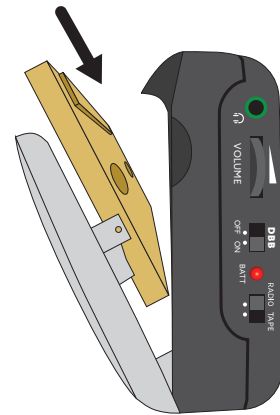
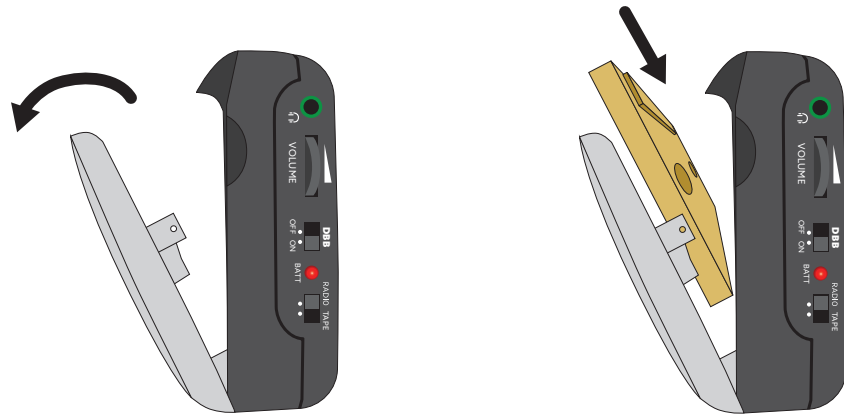
**Next: Full graphic iterations**

# RADIO STEREO CASSETTE PLAYER

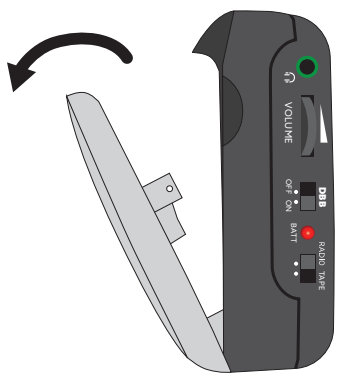




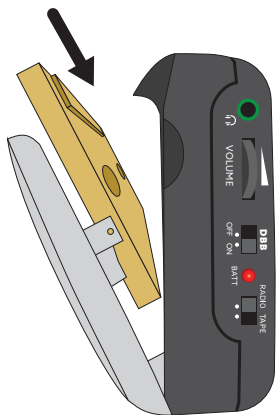
# RADIO STEREO CASSETTE PLAYER



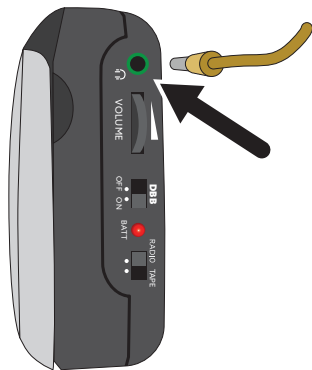
# RADIO STEREO CASSETTE PLAYER



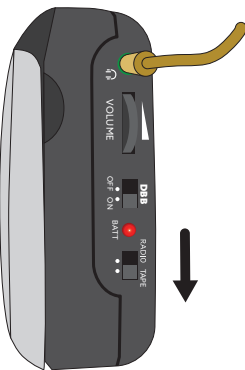
Open the cassette player door.



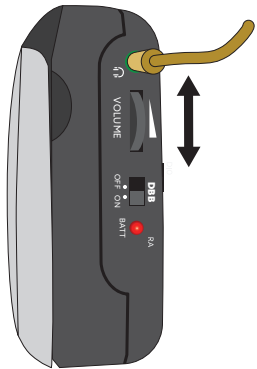
Place the cassette tape inside the cassette player.



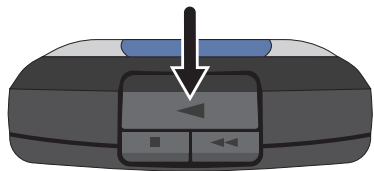
Plug the headphones into the headphone jack.



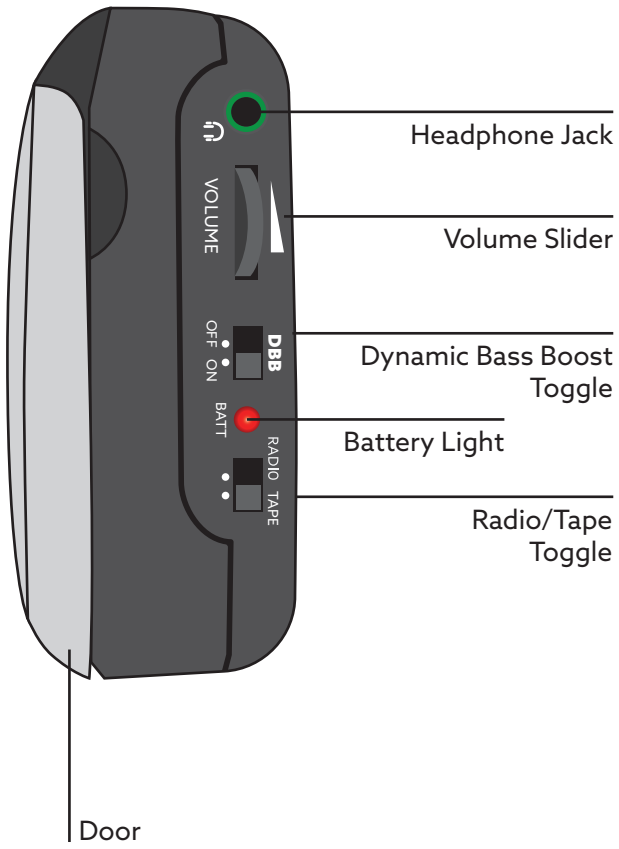
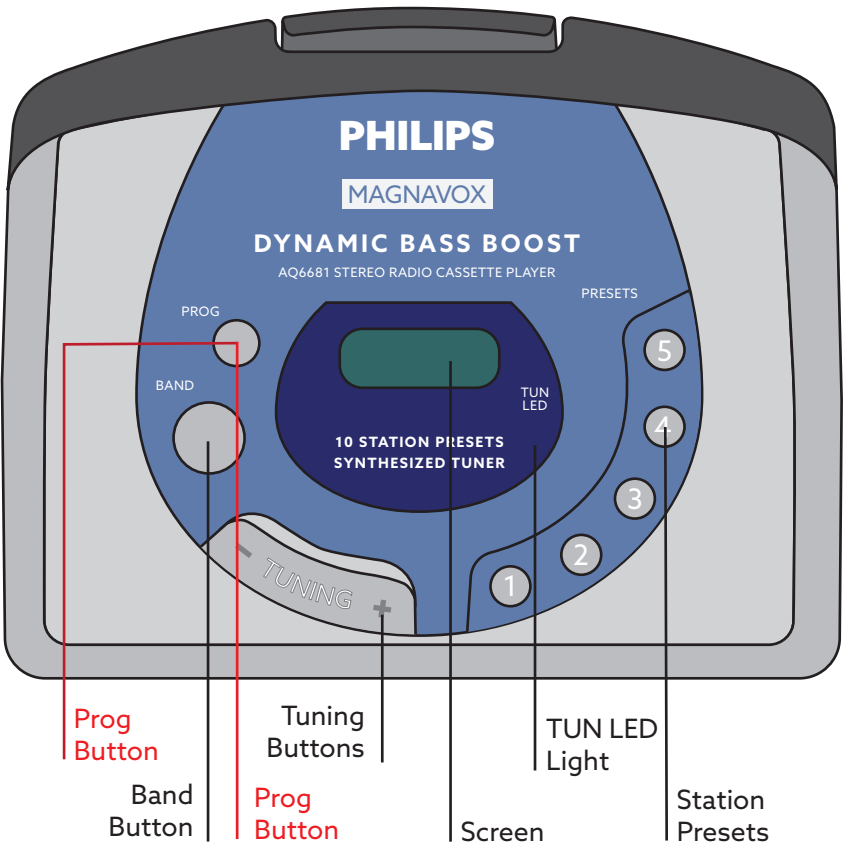
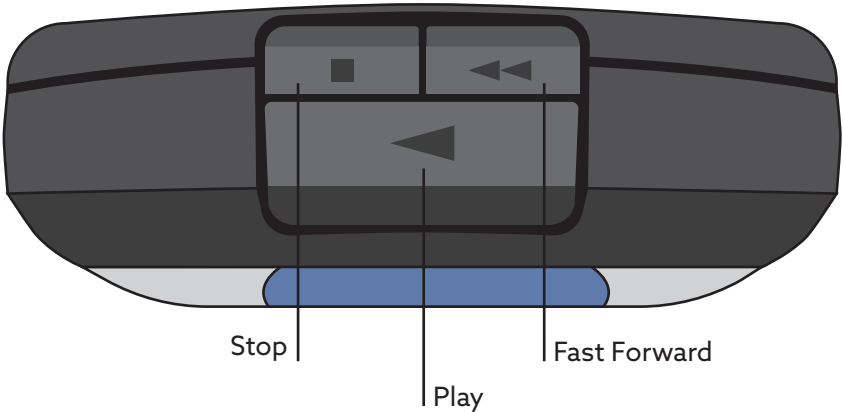
Check that the Radio/Tape toggle is set to Radio.



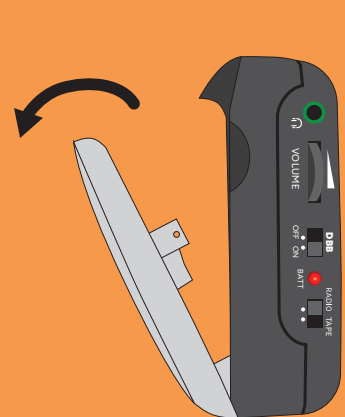
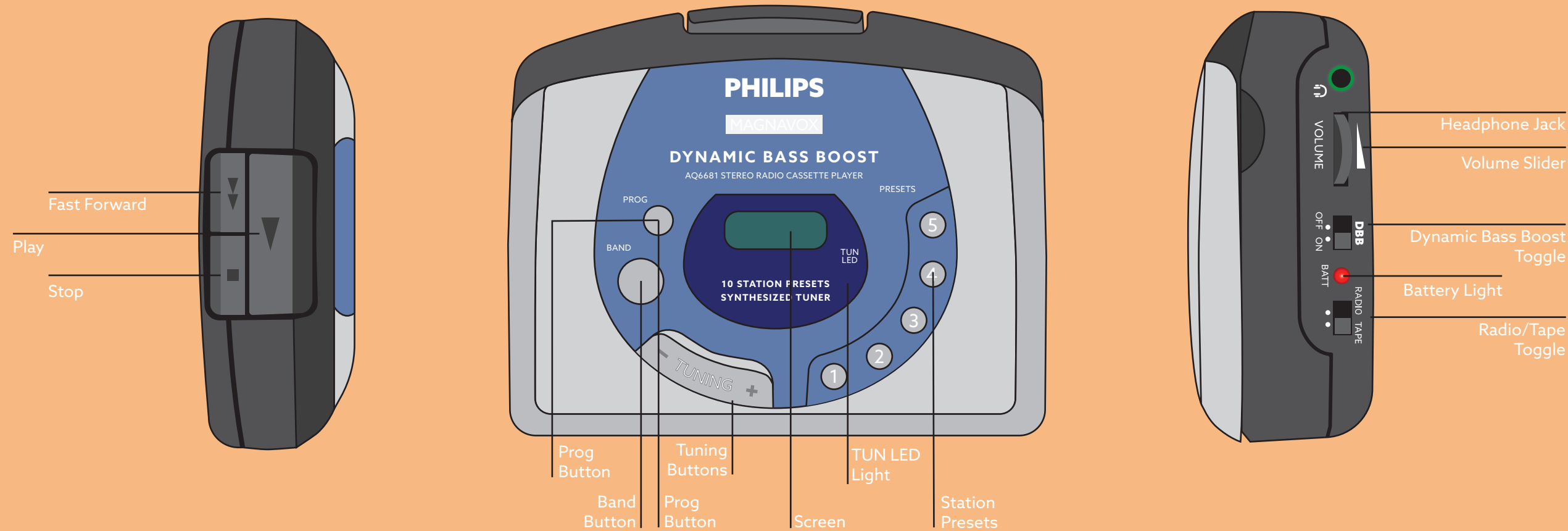
Adjust the volume slider to your preference.



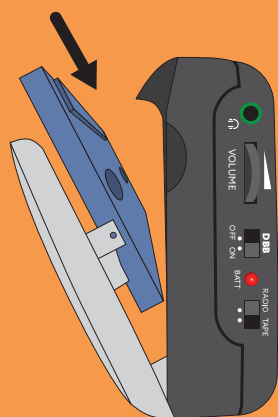
Press Play and rock out!



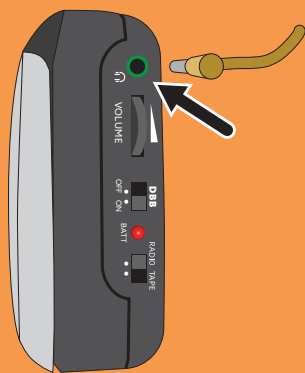
# RADIO STEREO CASSETTE PLAYER



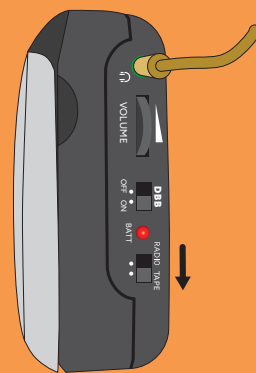
Open the cassette player door.



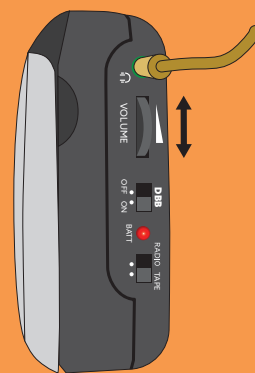
Place the cassette tape inside the cassette player.



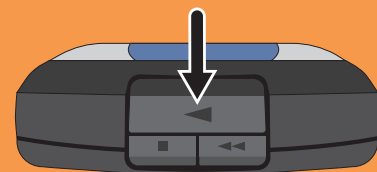
Plug the headphones into the headphone jack.



Check that the Radio/Tape toggle is set to Radio.

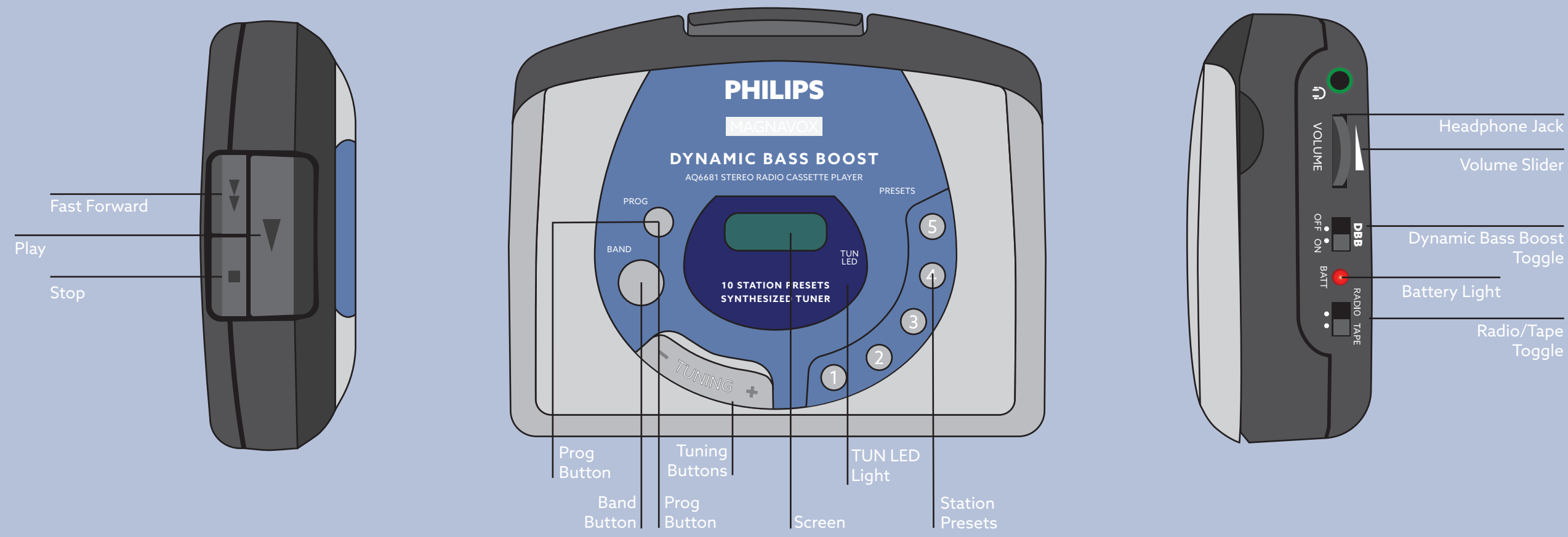


Adjust the volume slider to your preference.

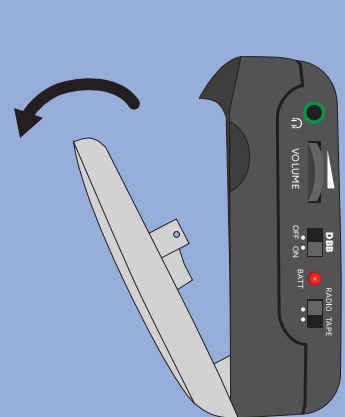
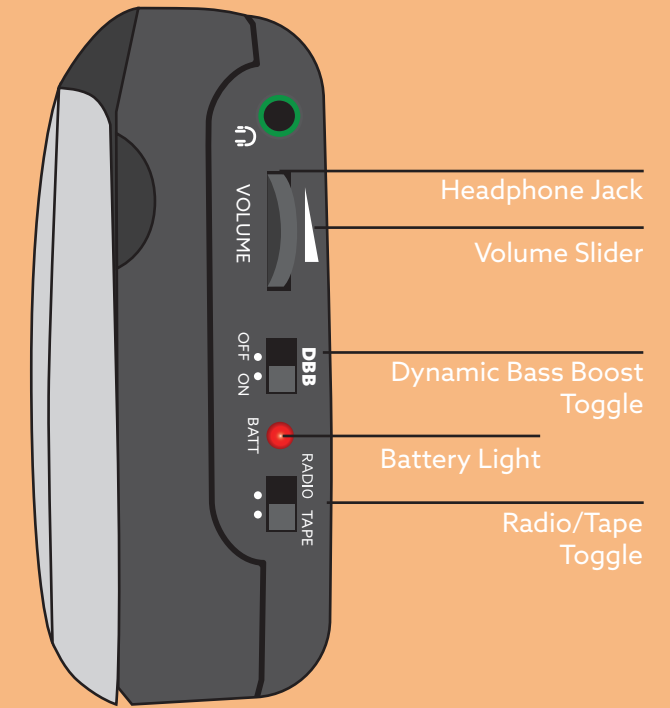
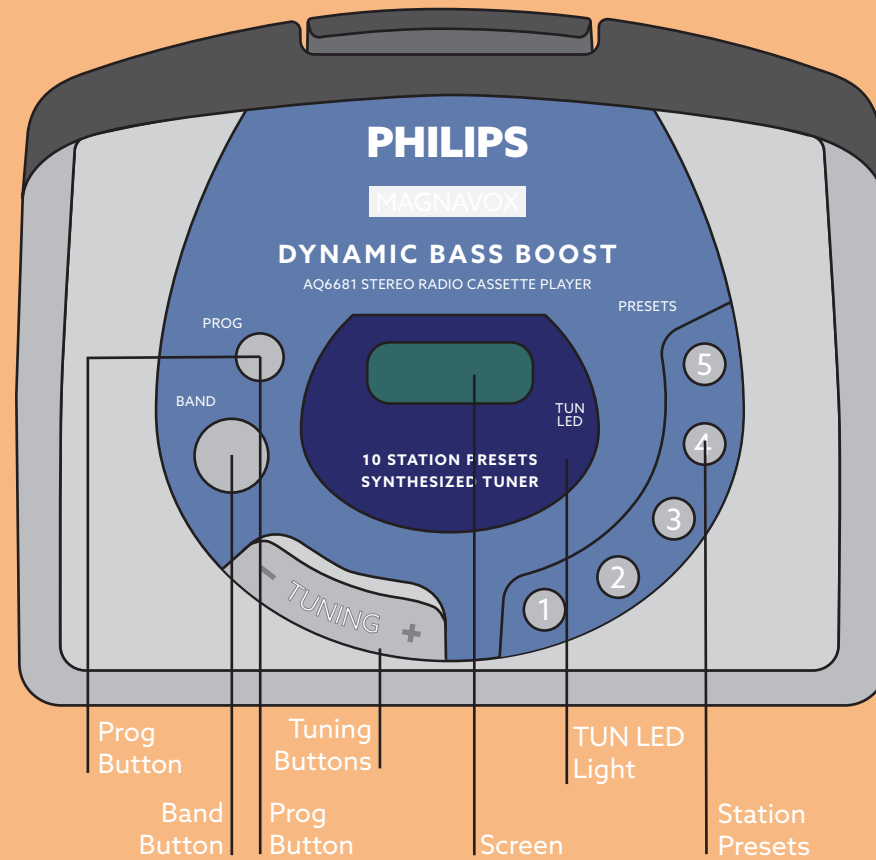
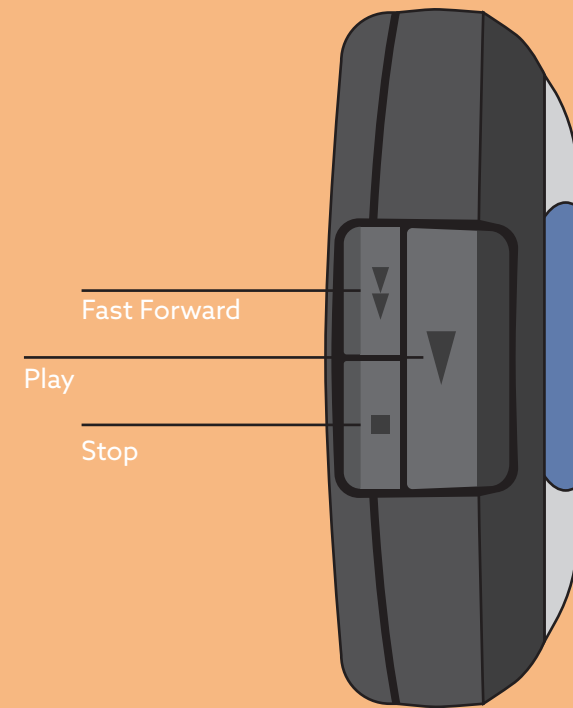


Press Play and rock out!

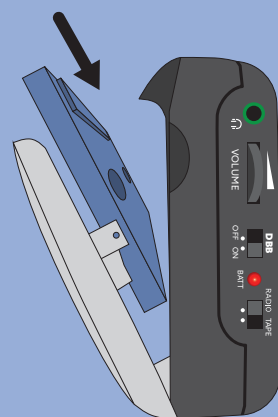
# RADIO STEREO CASSETTE PLAYER



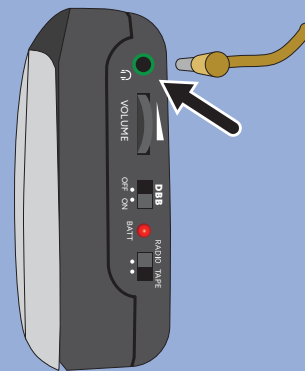
# RADIO STEREO CASSETTE PLAYER



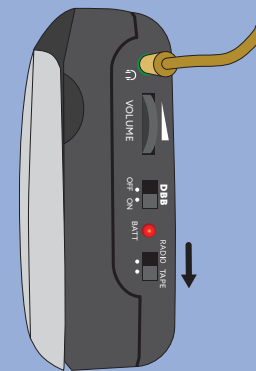
Open the cassette player door.



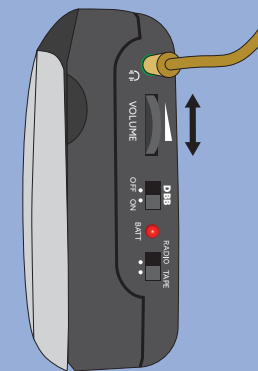
Place the cassette tape inside the cassette player.



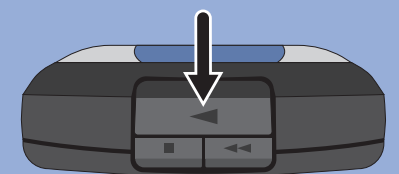
Plug the headphones into the headphone jack.



Check that the Radio/Tape toggle is set to Radio.

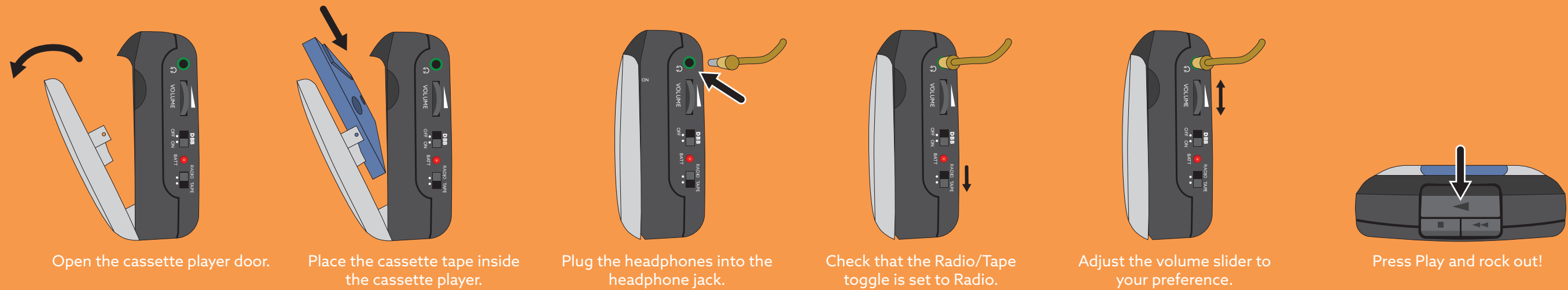
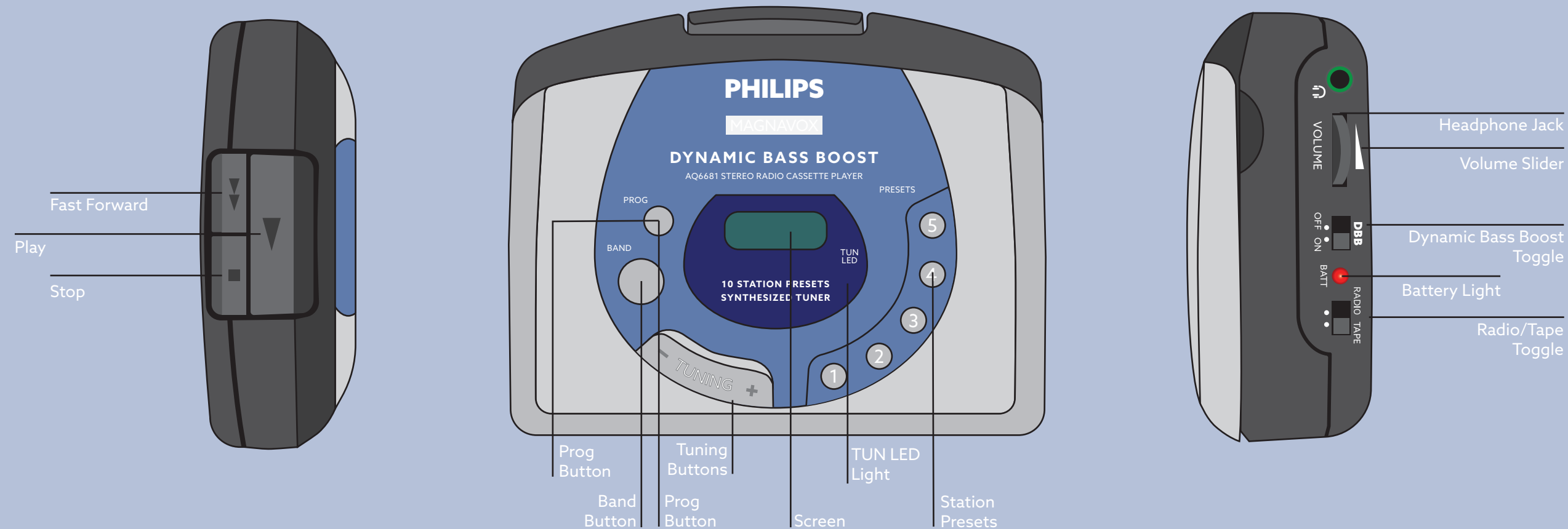


Adjust the volume slider to your preference.

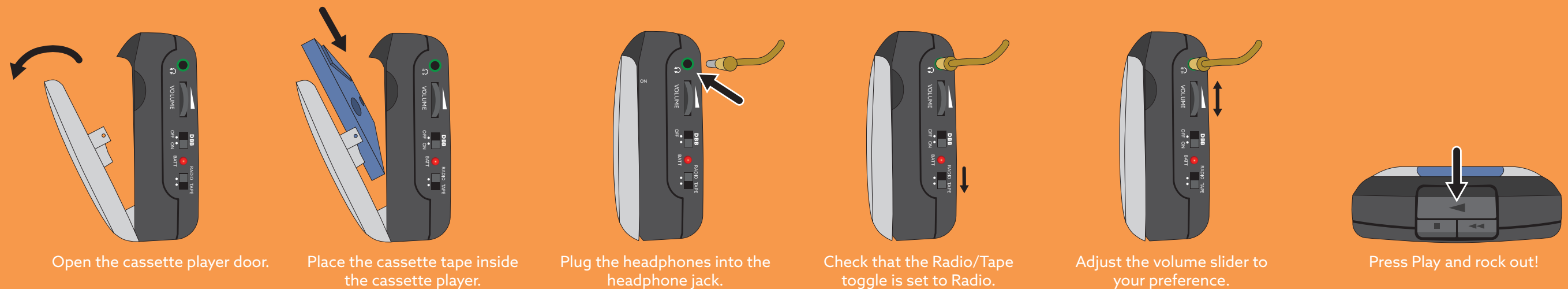
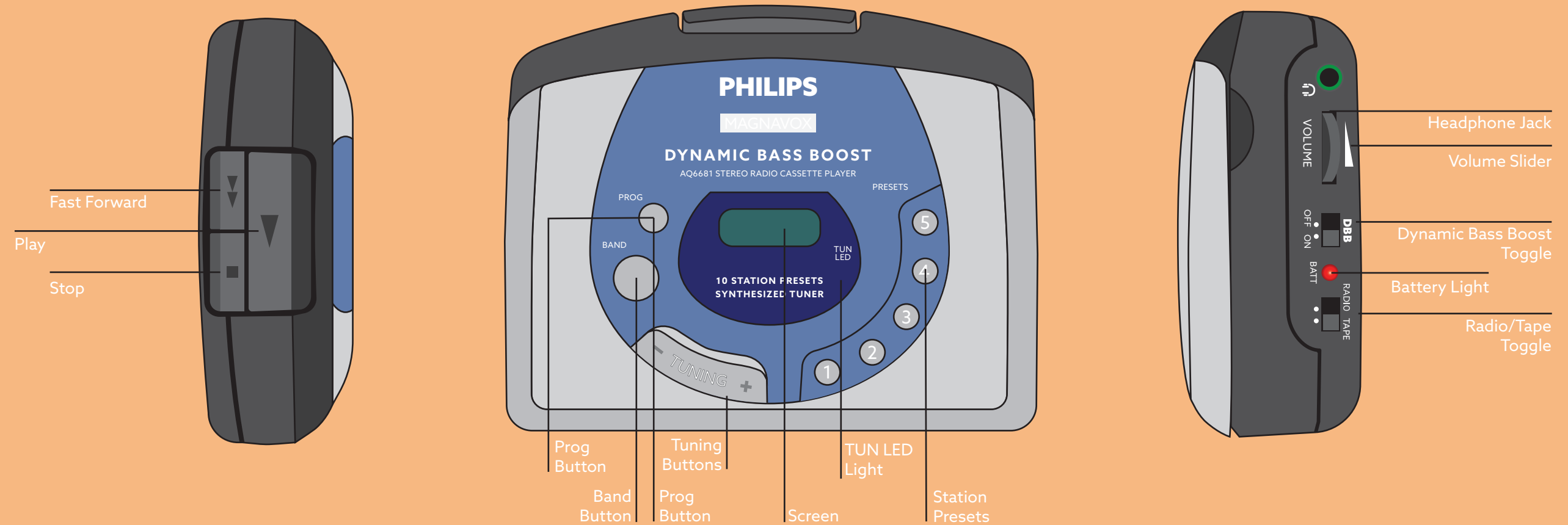


Press Play and rock out!

# RADIO STEREO CASSETTE PLAYER

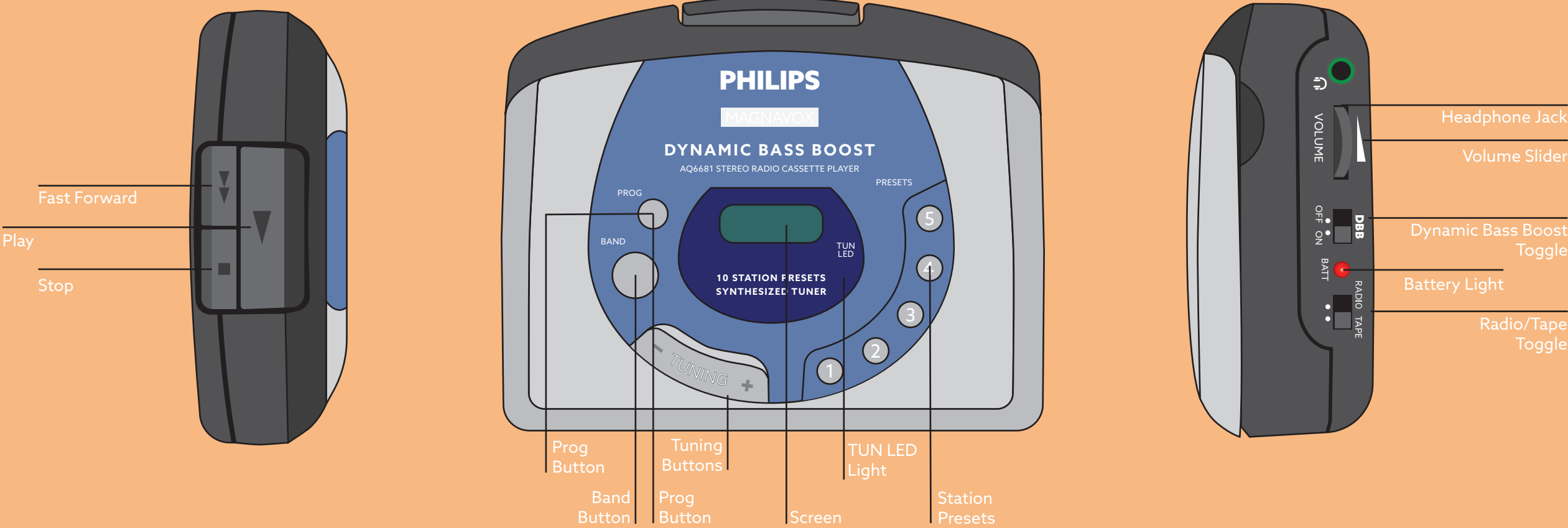


# RADIO STEREO CASSETTE PLAYER

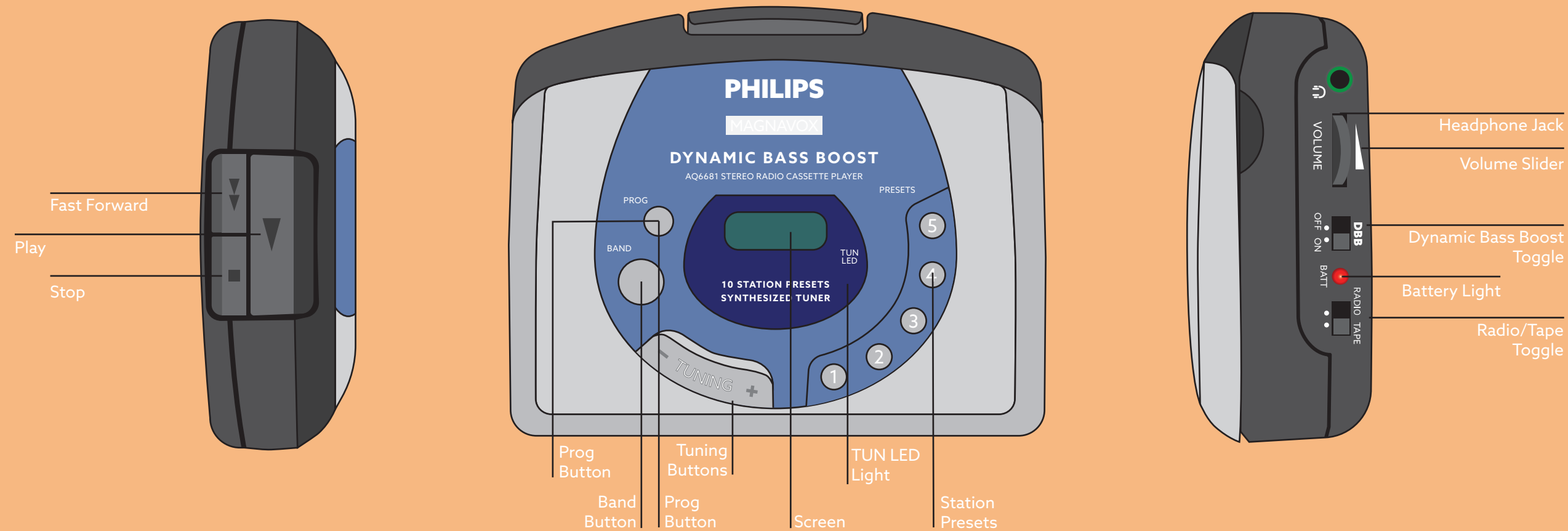




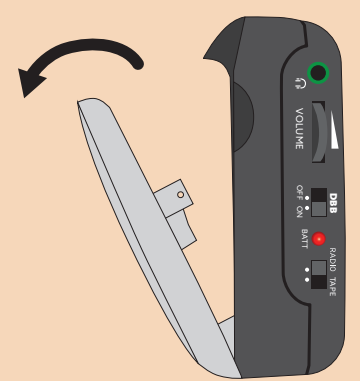
# RADIO STEREO CASSETTE PLAYER



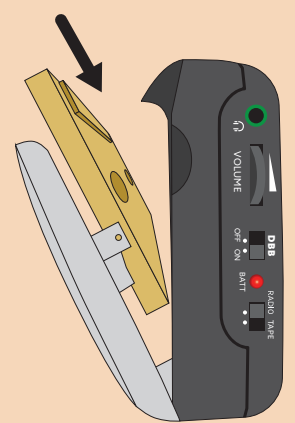
# RADIO STEREO CASSETTE PLAYER



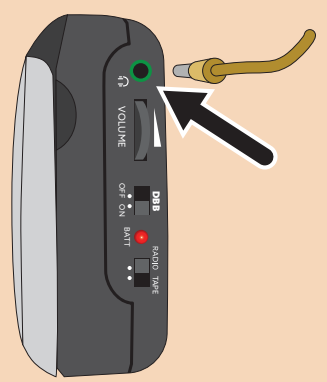
# RADIO STEREO CASSETTE PLAYER



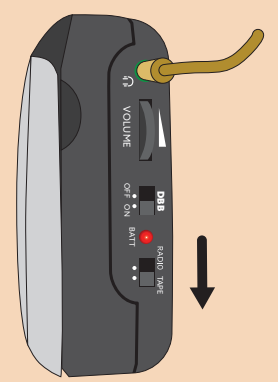
Open the cassette player door.



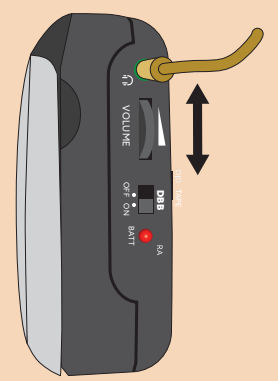
Place the cassette tape inside the cassette player.



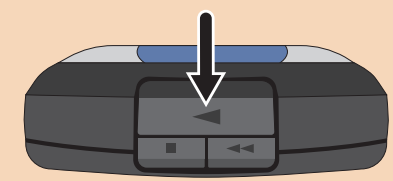
Plug the headphones into the headphone jack.



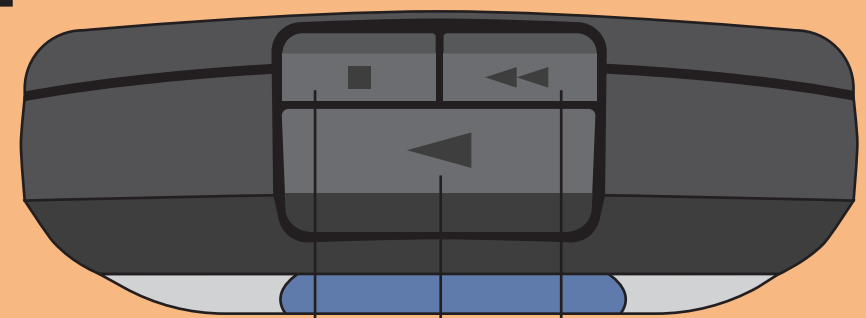
Check that the Radio/Tape toggle is set to Radio.



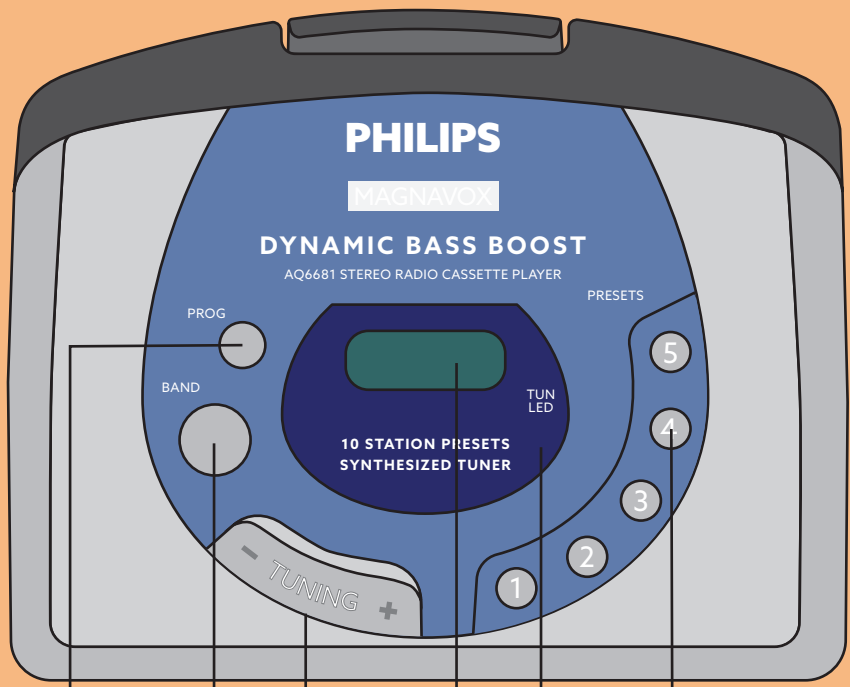
Adjust the volume slider to your preference.



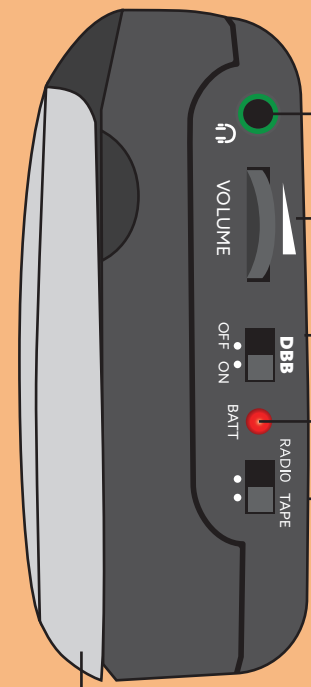
Press Play and rock out!



Stop  
Play  
Fast Forward



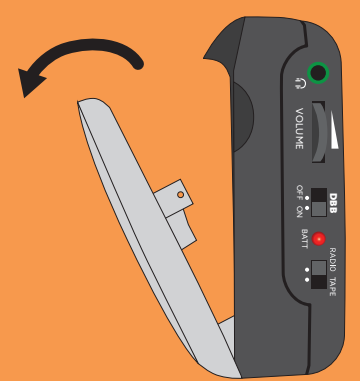
Prog Button  
Tuning Buttons  
TUN LED Light  
Screen  
Station Presets  
Band Button



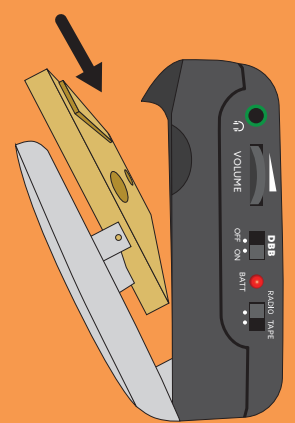
Headphone Jack  
Volume Slider  
Dynamic Bass Boost Toggle  
Battery Light  
Radio/Tape Toggle

Door

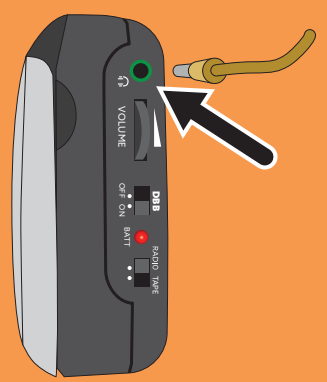
# RADIO STEREO CASSETTE PLAYER



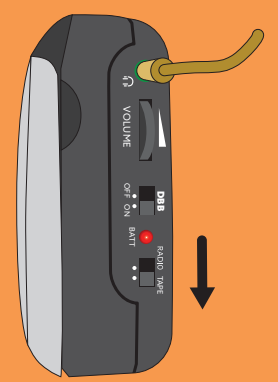
Open the cassette player door.



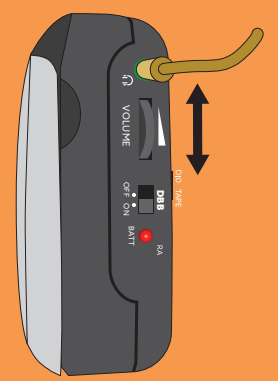
Place the cassette tape inside the cassette player.



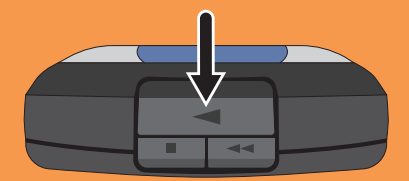
Plug the headphones into the headphone jack.



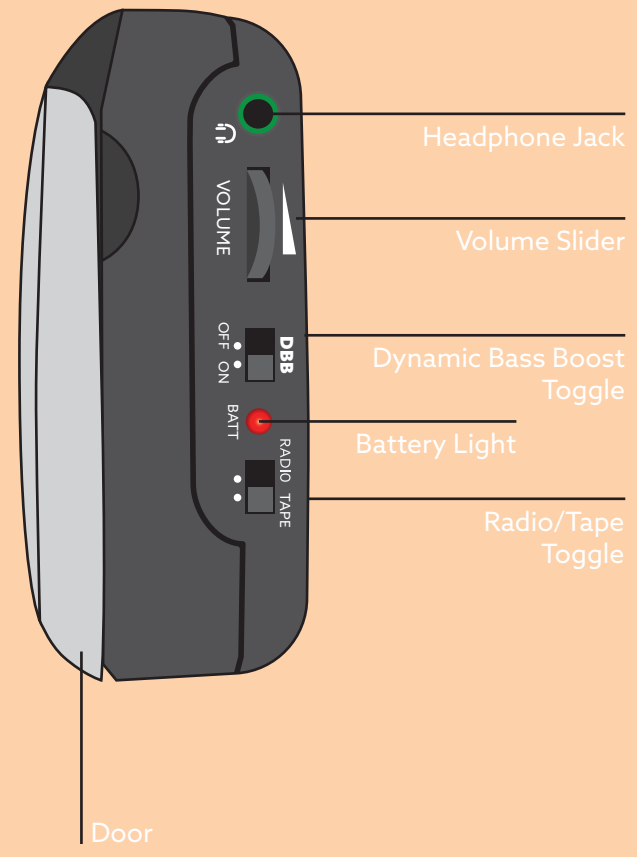
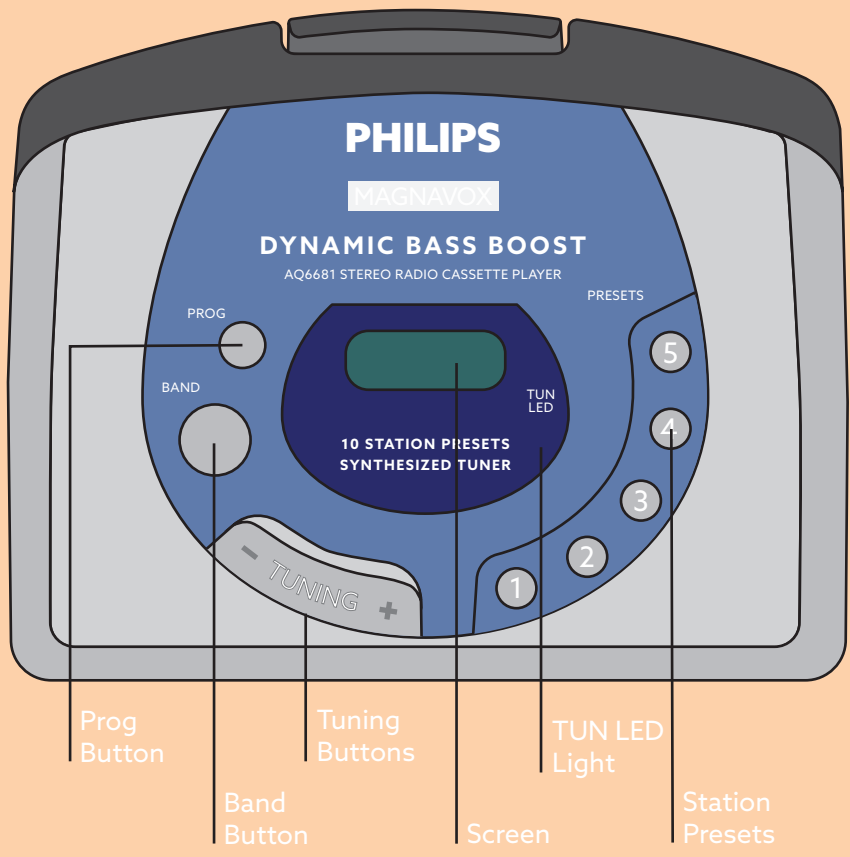
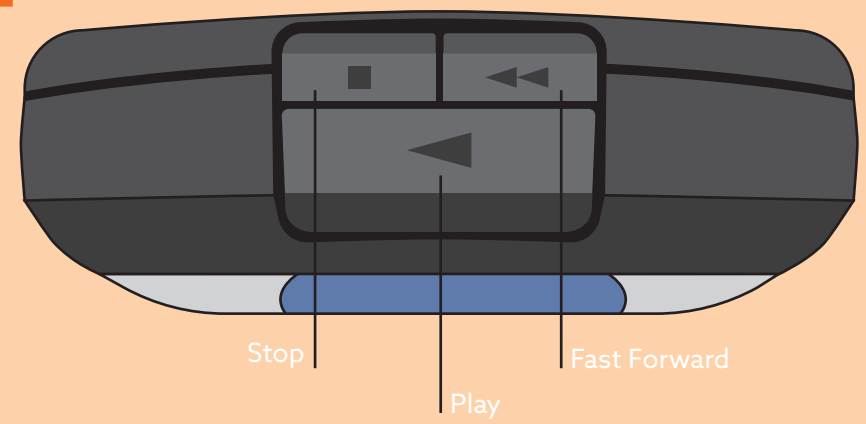
Check that the Radio/Tape toggle is set to Radio.



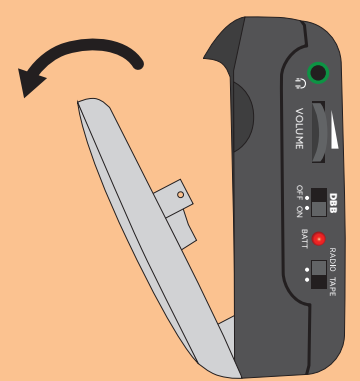
Adjust the volume slider to your preference.



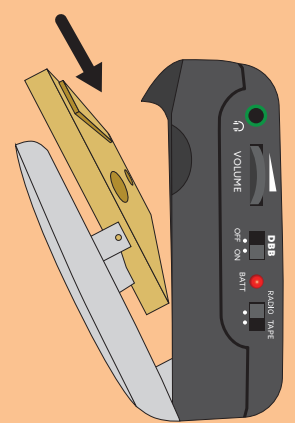
Press Play and rock out!



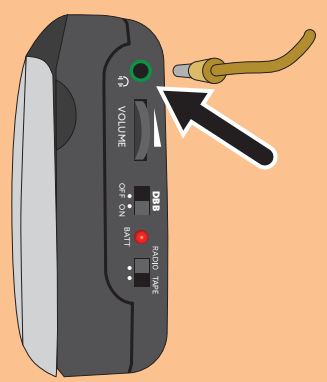
# RADIO STEREO CASSETTE PLAYER



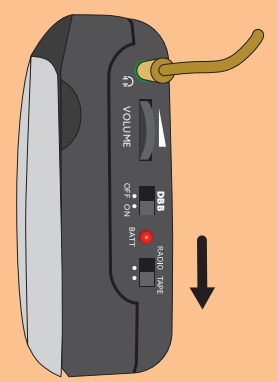
Open the cassette player door.



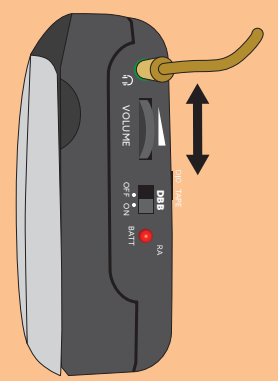
Place the cassette tape inside the cassette player.



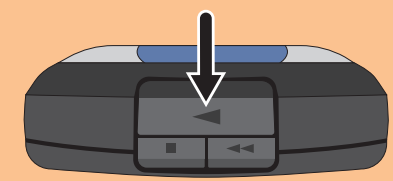
Plug the headphones into the headphone jack.



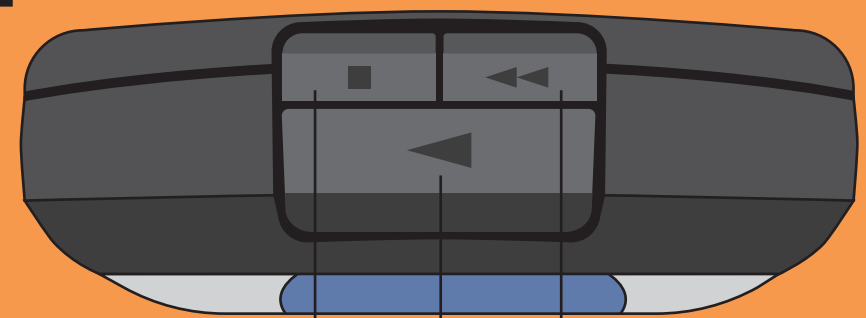
Check that the Radio/Tape toggle is set to Radio.



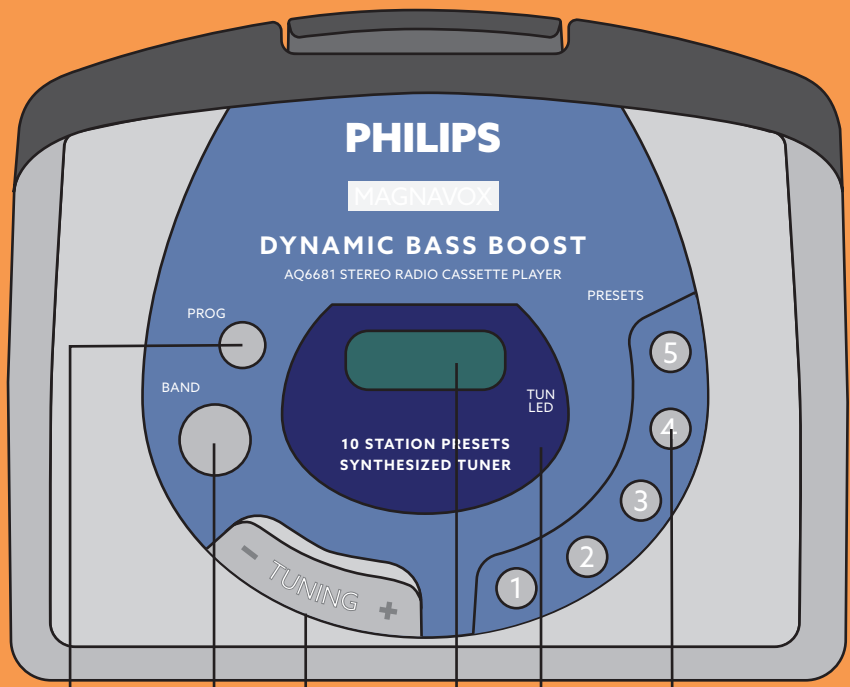
Adjust the volume slider to your preference.



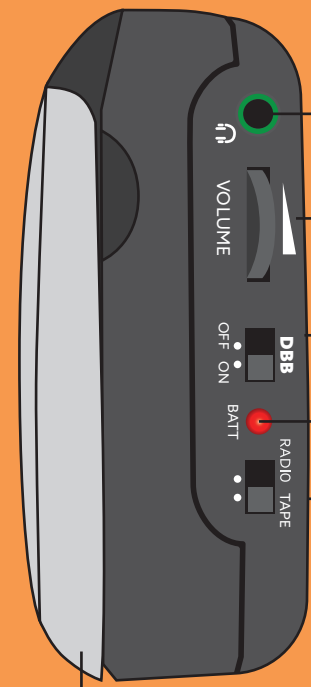
Press Play and rock out!



Stop  
Play  
Fast Forward



Prog Button  
Tuning Buttons  
TUN LED Light  
Band Button  
Screen  
Station Presets

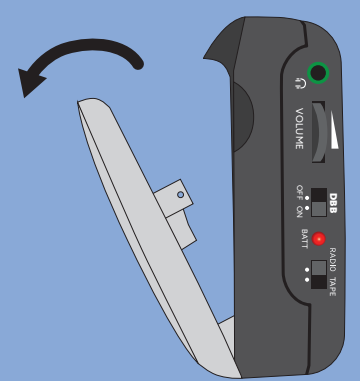


Headphone Jack  
Volume Slider  
Dynamic Bass Boost Toggle  
Battery Light  
Radio/Tape Toggle

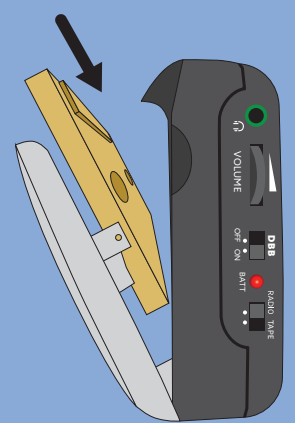
Door



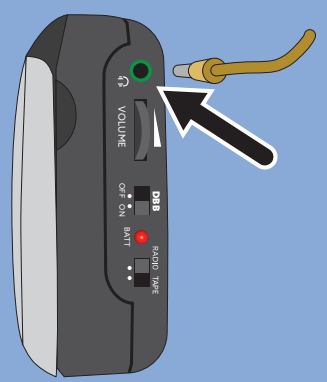
# RADIO STEREO CASSETTE PLAYER



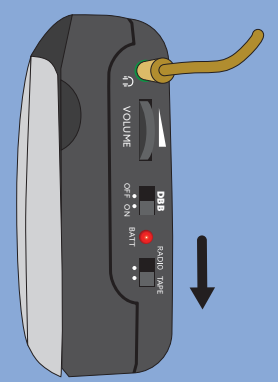
Open the cassette player door.



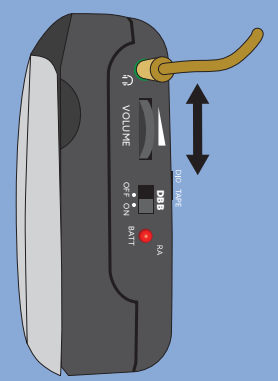
Place the cassette tape inside the cassette player.



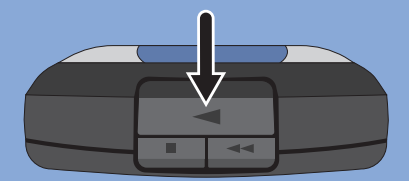
Plug the headphones into the headphone jack.



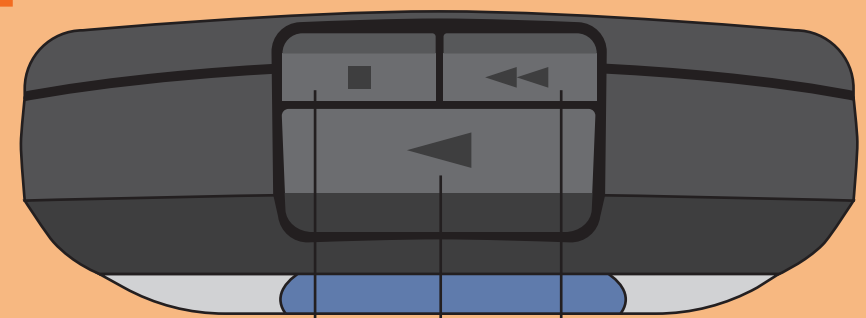
Check that the Radio/Tape toggle is set to Radio.



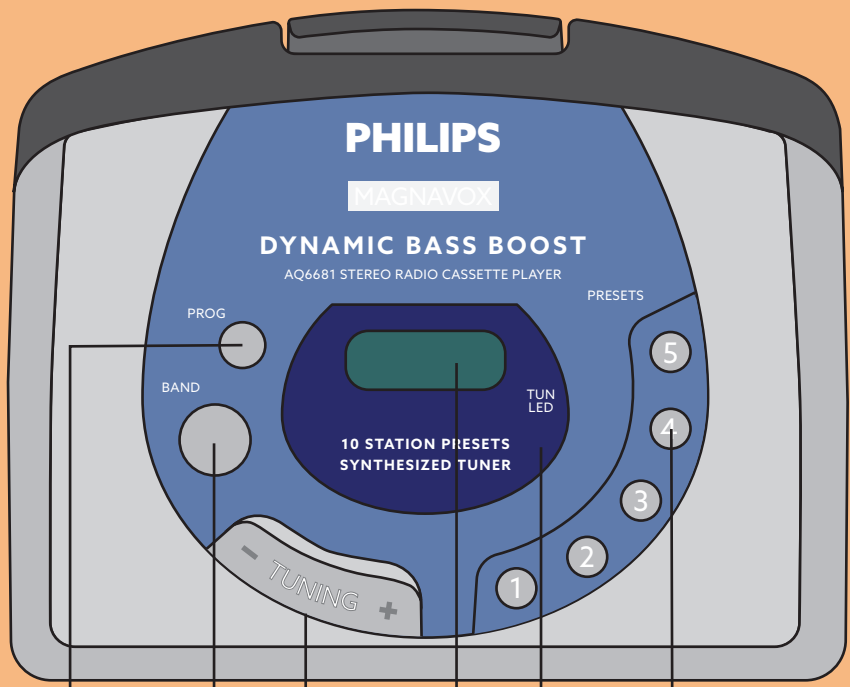
Adjust the volume slider to your preference.



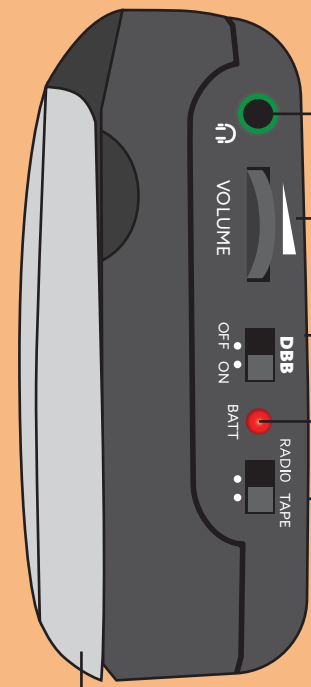
Press Play and rock out!



Stop  
Play  
Fast Forward



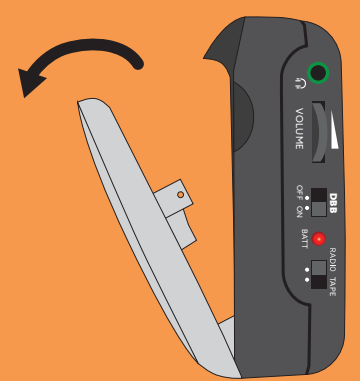
Prog Button  
Tuning Buttons  
TUN LED Light  
Band Button  
Screen  
Station Presets



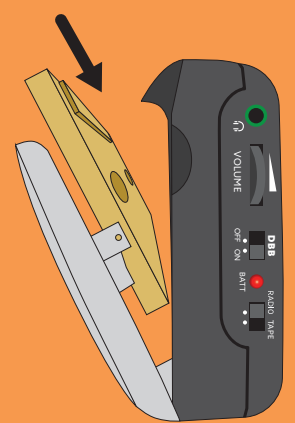
Headphone Jack  
Volume Slider  
Dynamic Bass Boost Toggle  
Battery Light  
Radio/Tape Toggle

Door

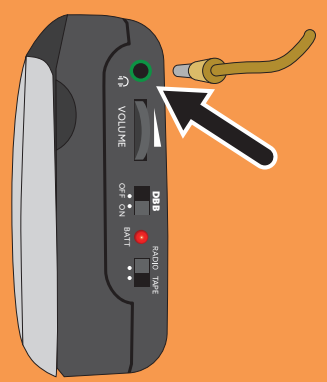
# RADIO STEREO CASSETTE PLAYER



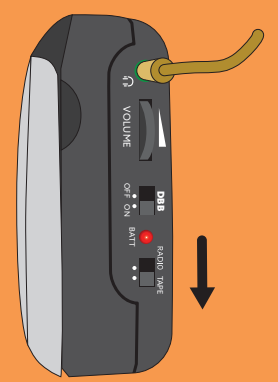
Open the cassette player door.



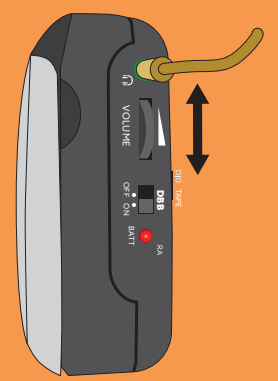
Place the cassette tape inside the cassette player.



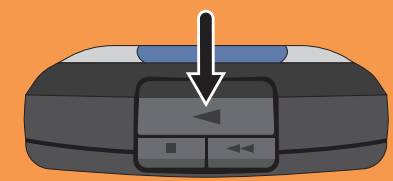
Plug the headphones into the headphone jack.



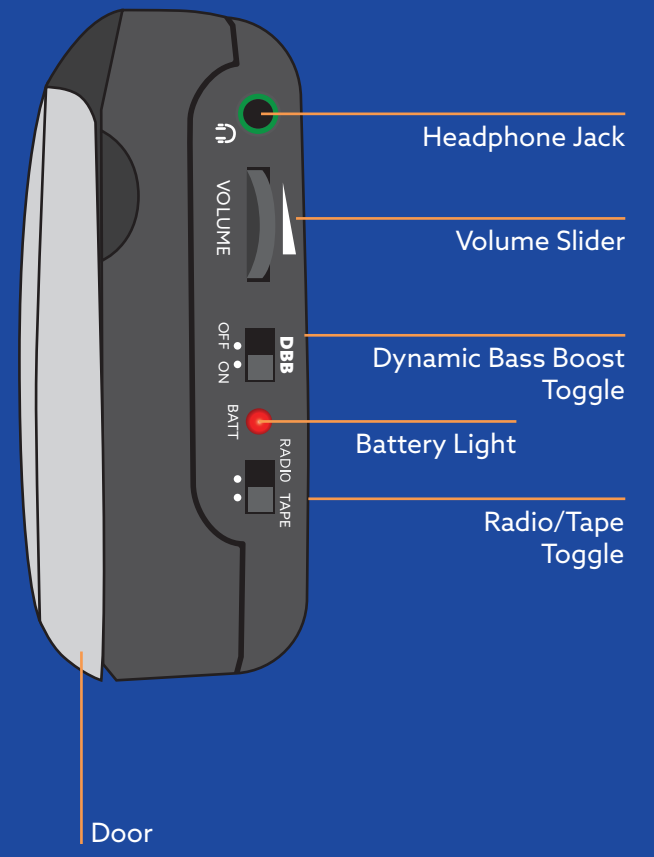
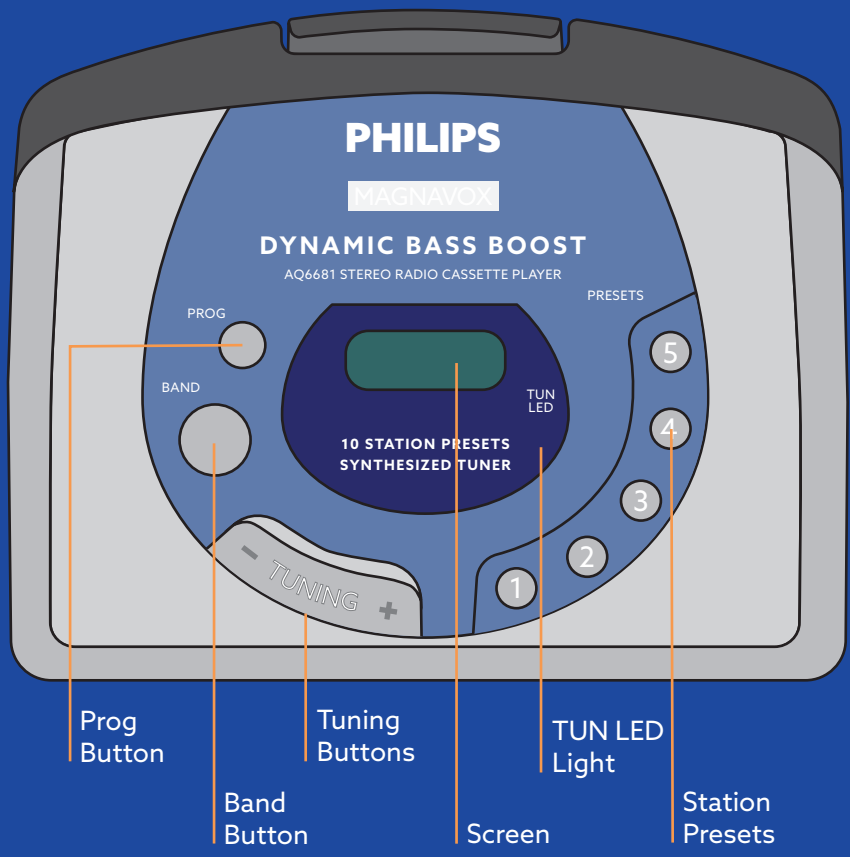
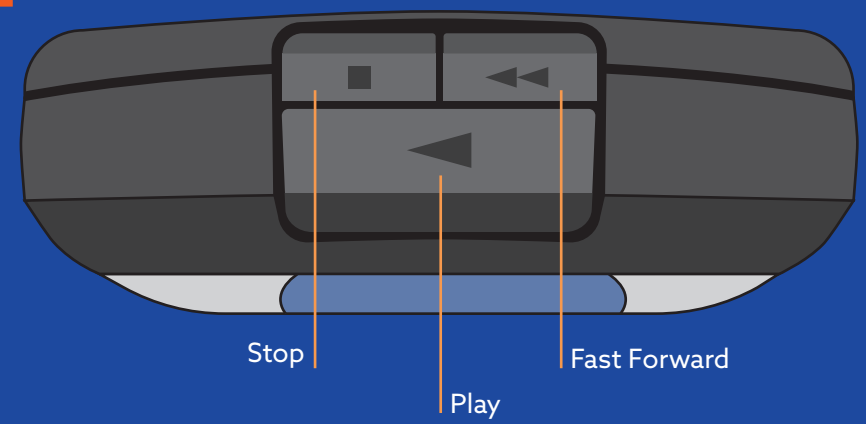
Check that the Radio/Tape toggle is set to Radio.



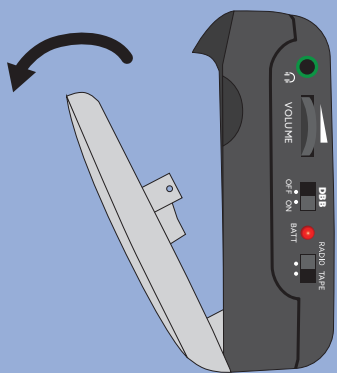
Adjust the volume slider to your preference.



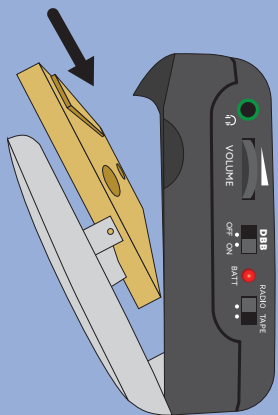
Press Play and rock out!



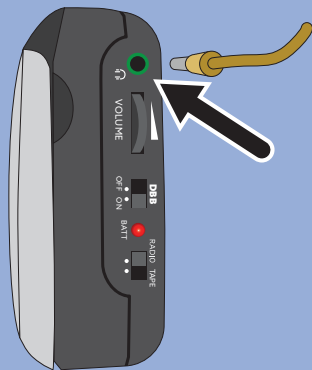
# RADIO STEREO CASSETTE PLAYER



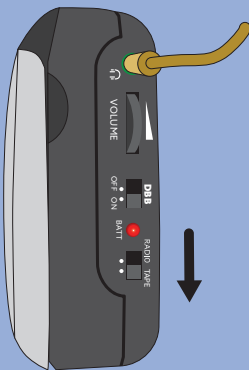
Open the cassette player door.



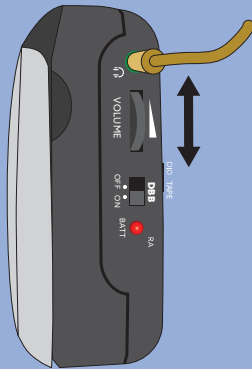
Place the cassette tape inside the cassette player.



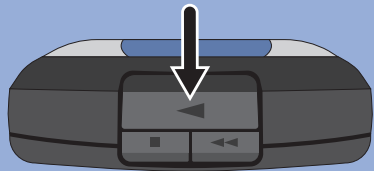
Plug the headphones into the headphone jack.



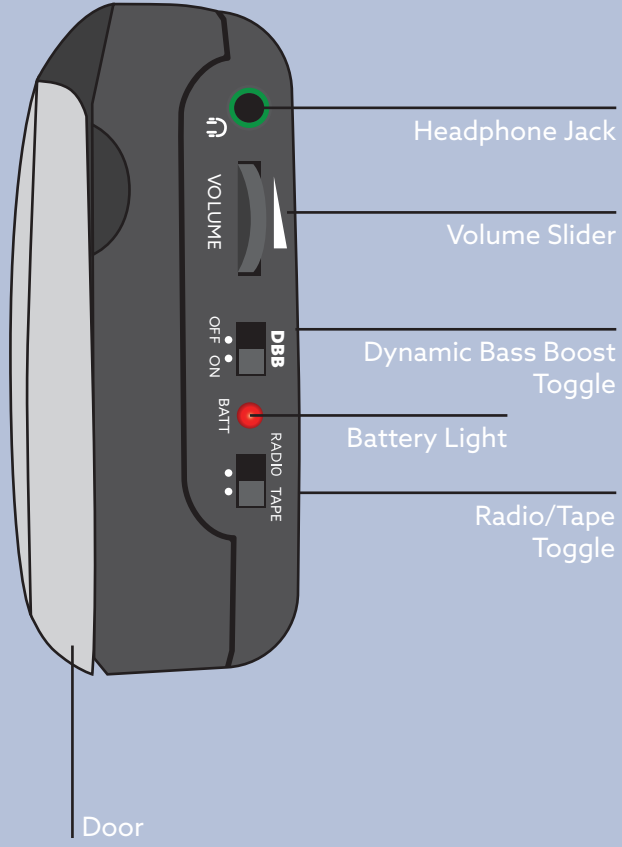
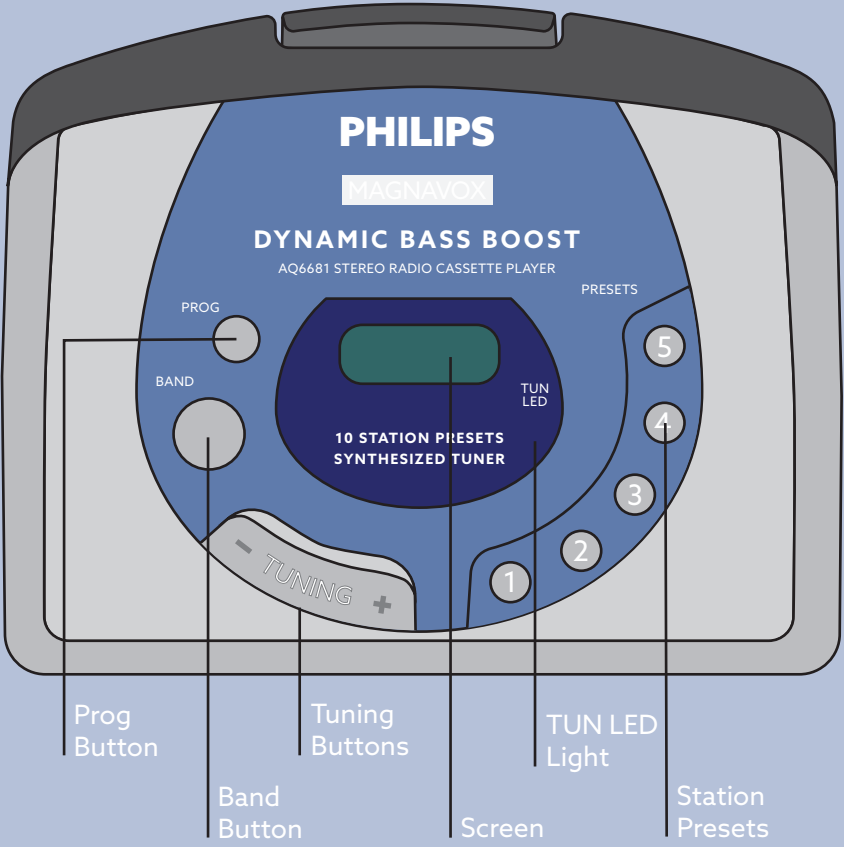
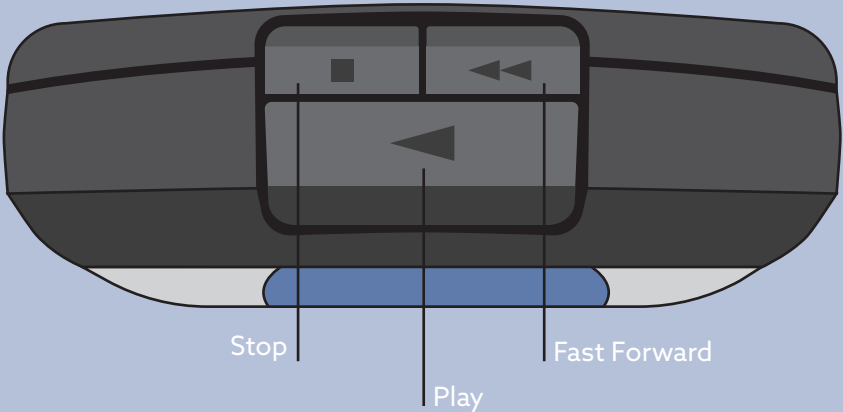
Check that the Radio/Tape toggle is set to Radio.



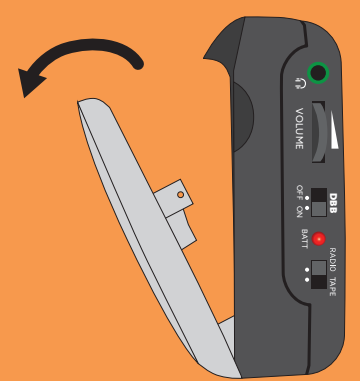
Adjust the volume slider to your preference.



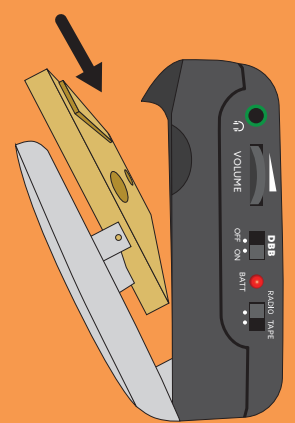
Press Play and rock out!



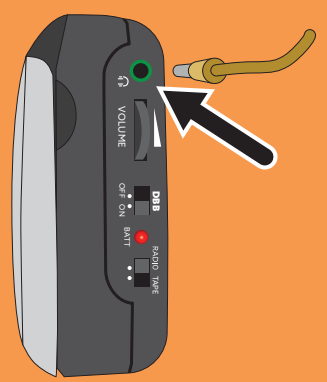
# RADIO STEREO CASSETTE PLAYER



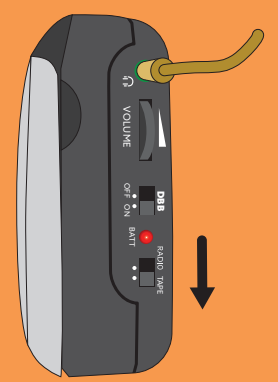
Open the cassette player door.



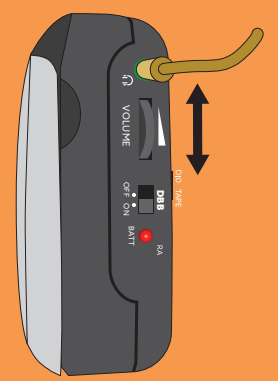
Place the cassette tape inside the cassette player.



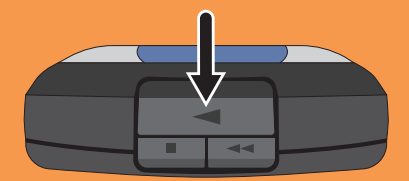
Plug the headphones into the headphone jack.



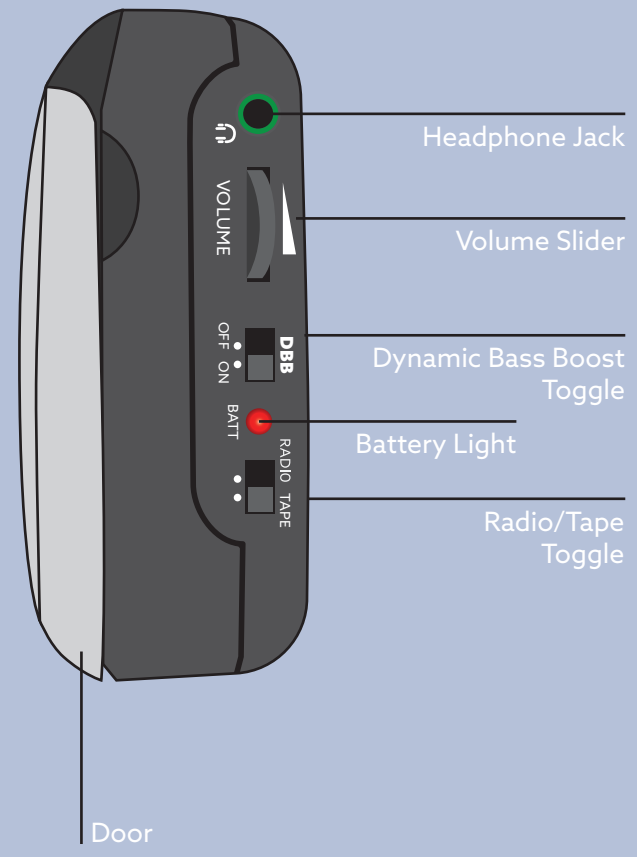
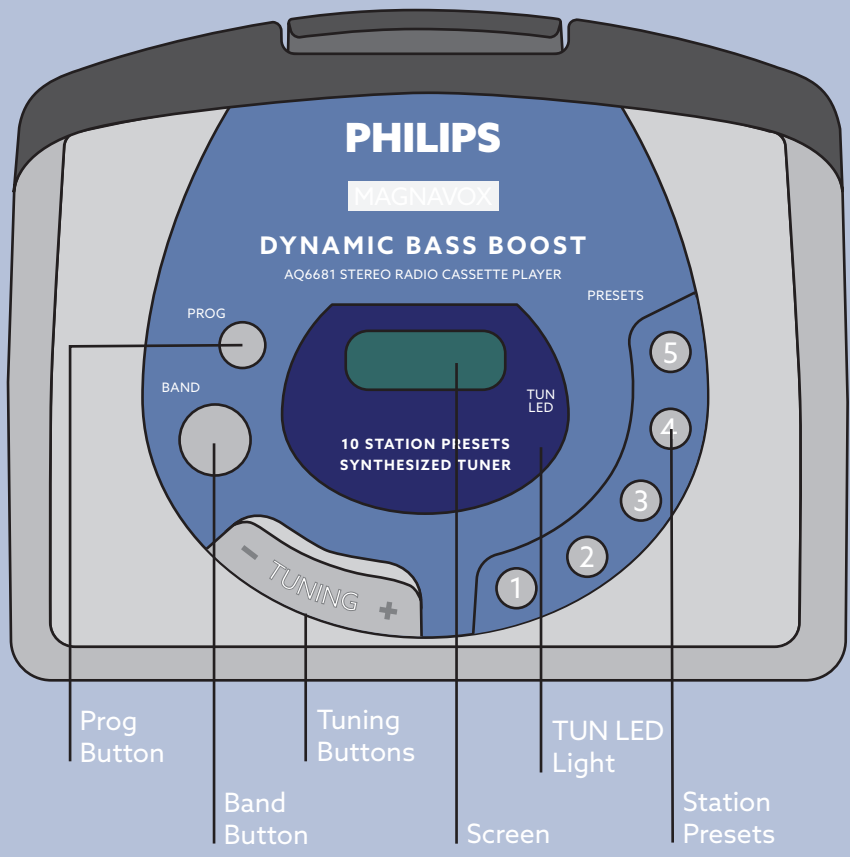
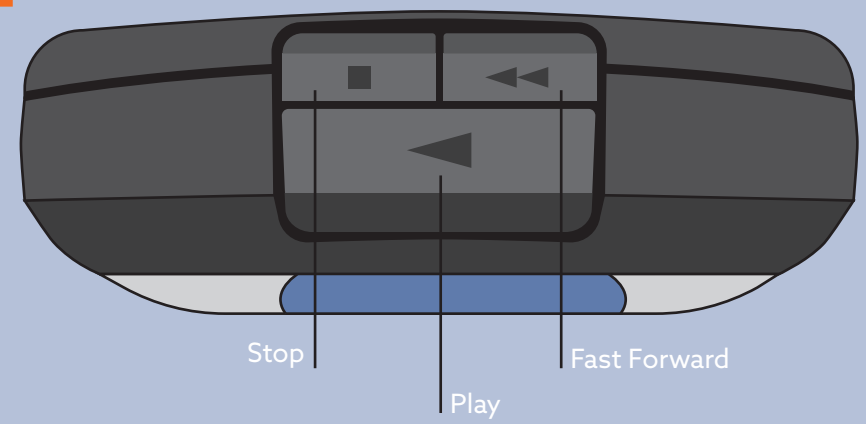
Check that the Radio/Tape toggle is set to Radio.



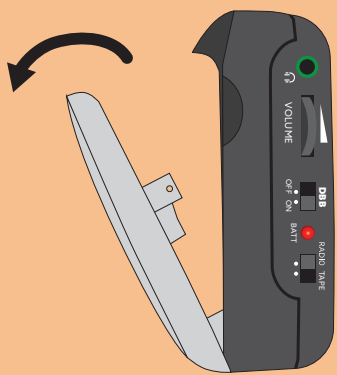
Adjust the volume slider to your preference.



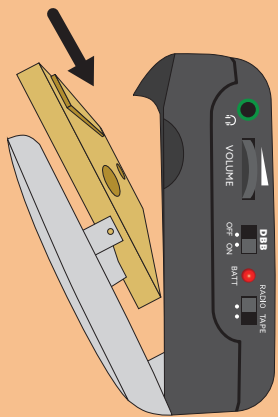
Press Play and rock out!



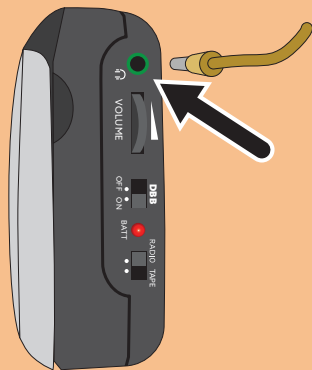
# RADIO STEREO CASSETTE PLAYER



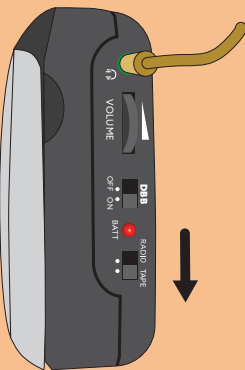
Open the cassette player door.



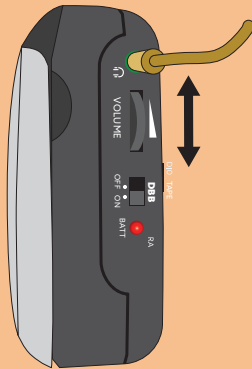
Place the cassette tape inside the cassette player.



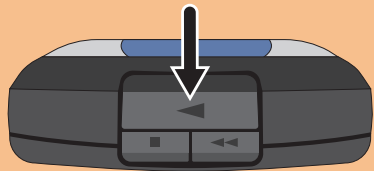
Plug the headphones into the headphone jack.



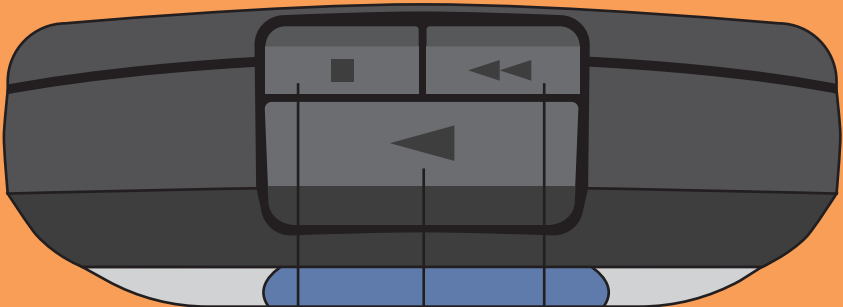
Check that the Radio/Tape toggle is set to Radio.



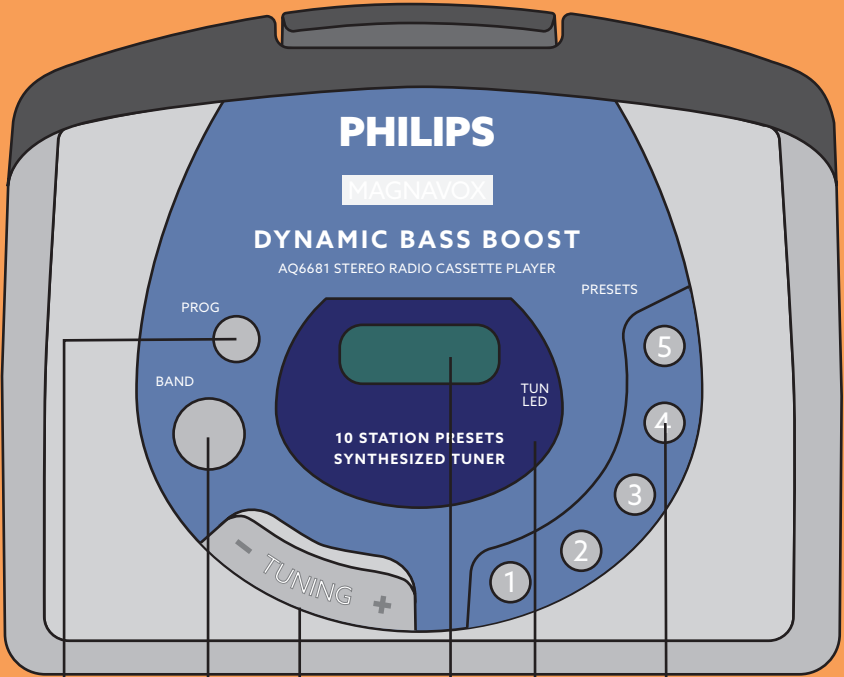
Adjust the volume slider to your preference.



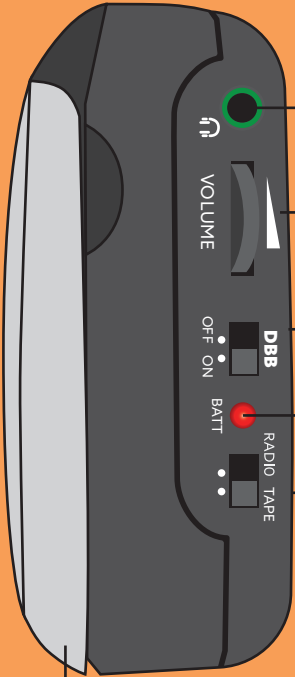
Press Play and rock out!



Stop  
Play  
Fast Forward



Prog Button  
Band Button  
Tuning Buttons  
Screen  
TUN LED Light  
Station Presets

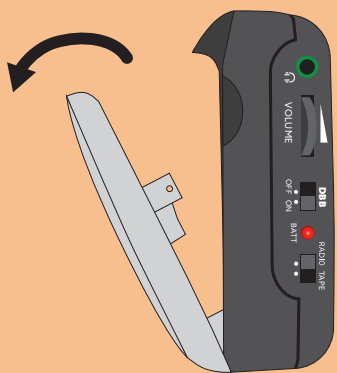


Headphone Jack  
Volume Slider  
Dynamic Bass Boost Toggle  
Battery Light  
Radio/Tape Toggle

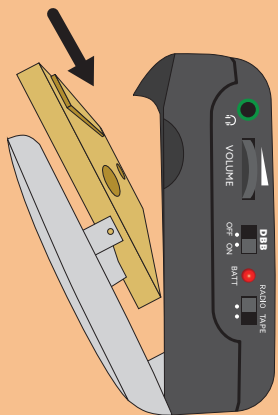
Door



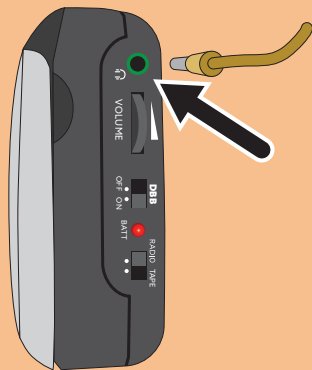
# RADIO STEREO CASSETTE PLAYER



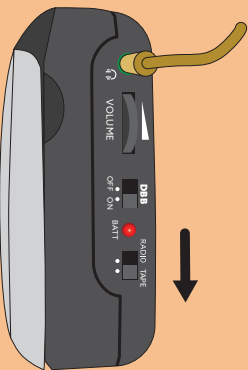
Open the cassette player door.



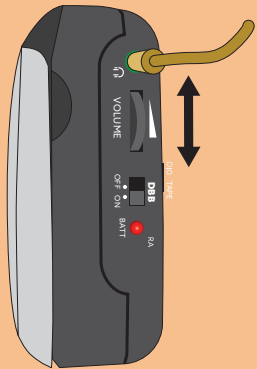
Place the cassette tape inside the cassette player.



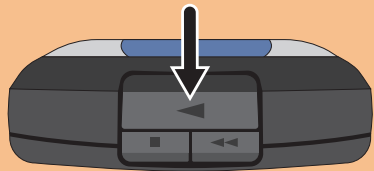
Plug the headphones into the headphone jack.



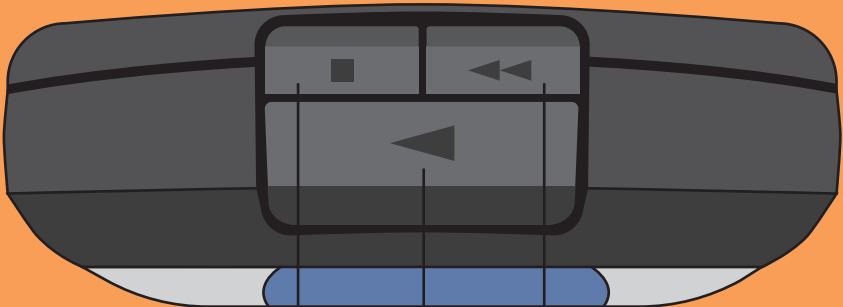
Check that the Radio/Tape toggle is set to Radio.



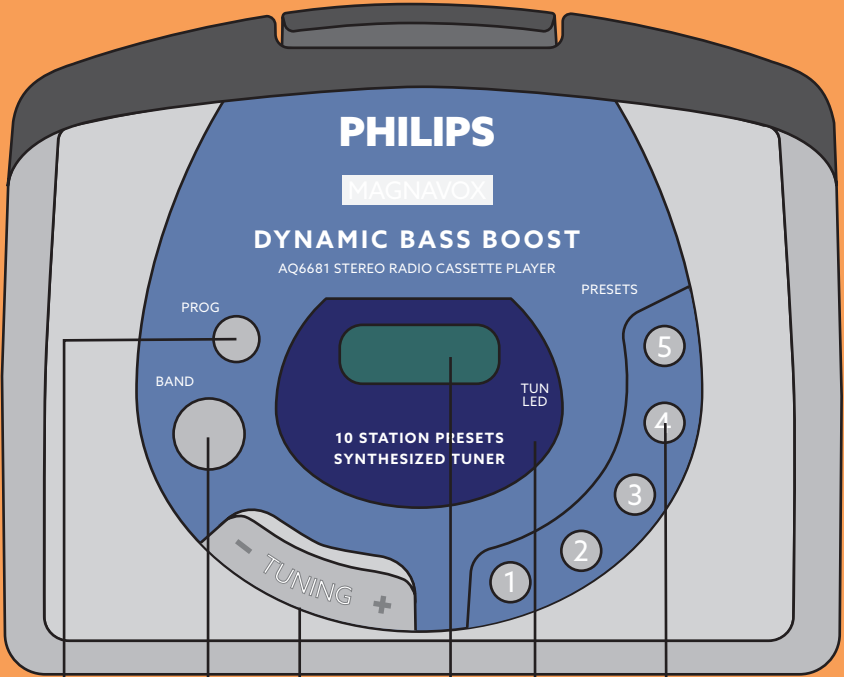
Adjust the volume slider to your preference.



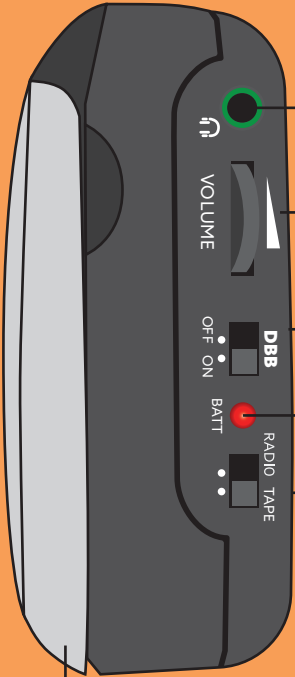
Press Play and rock out!



Stop  
Play  
Fast Forward



Prog Button  
Band Button  
Tuning Buttons  
Screen  
TUN LED Light  
Station Presets

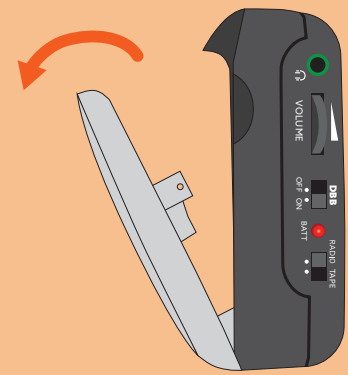


Headphone Jack  
Volume Slider  
Dynamic Bass Boost Toggle  
Battery Light  
Radio/Tape Toggle

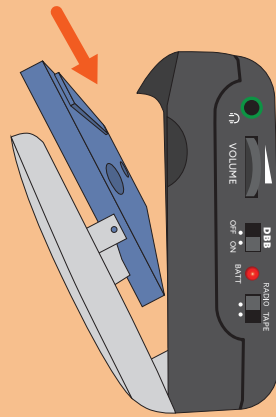
Door

# RADIO STEREO CASSETTE PLAYER

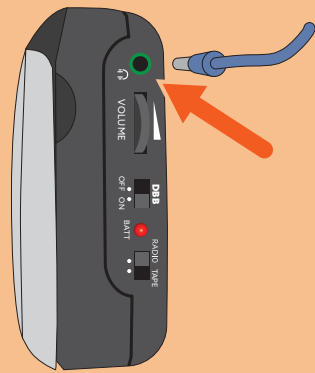
## PHILIPS



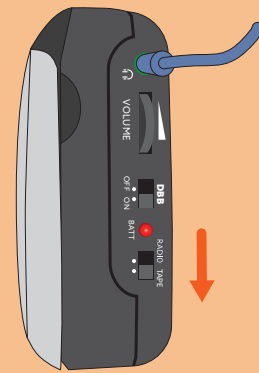
Open the cassette player door.



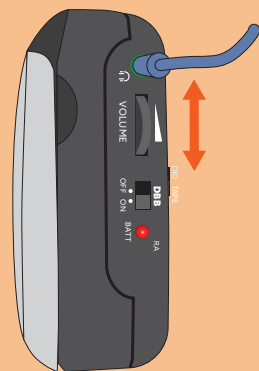
Place the cassette tape inside the cassette player.



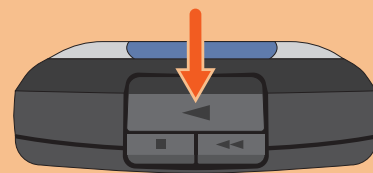
Plug the headphones into the headphone jack.



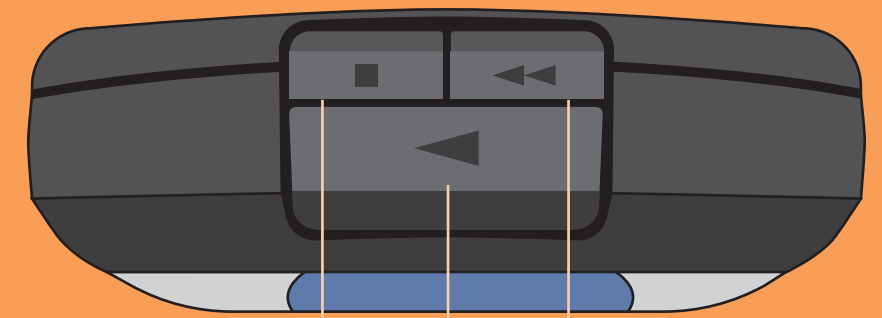
Check that the Radio/Tape toggle is set to Radio.



Adjust the volume slider to your preference.



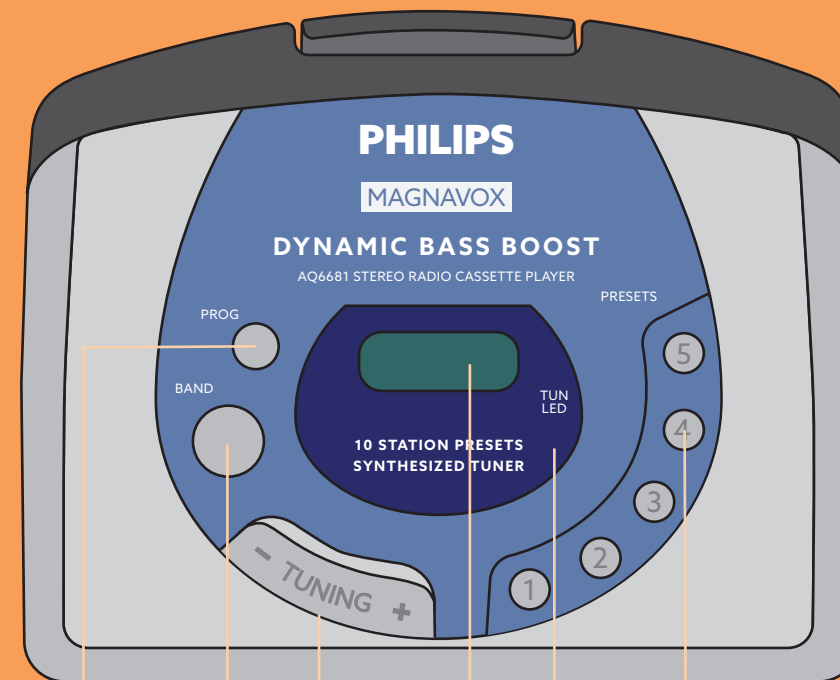
Press Play and rock out!



Stop

Play

Fast Forward



Prog Button

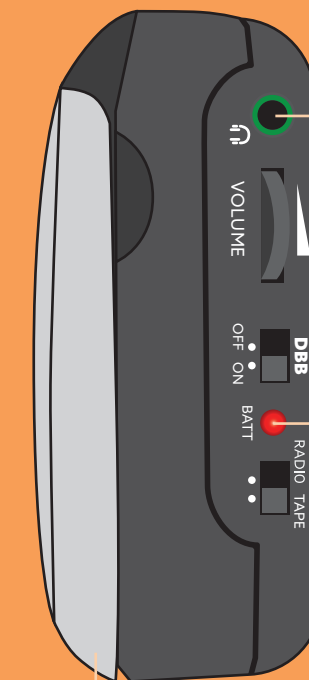
Band Button

Tuning Buttons

Screen

TUN LED Light

Station Presets



Headphone Jack

Volume Slider

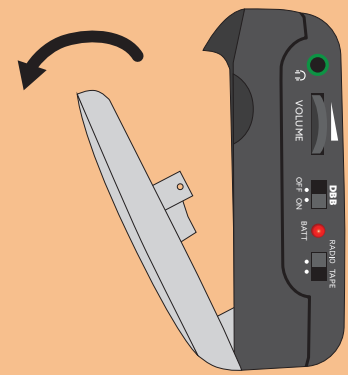
Dynamic Bass Boost Toggle

Battery Light

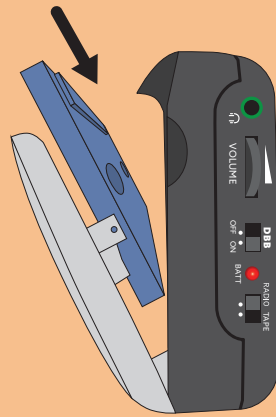
Radio/Tape Toggle

Door

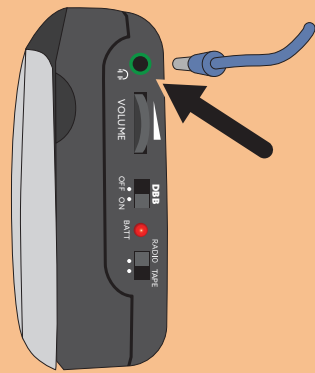
# RADIO STEREO CASSETTE PLAYER PHILIPS



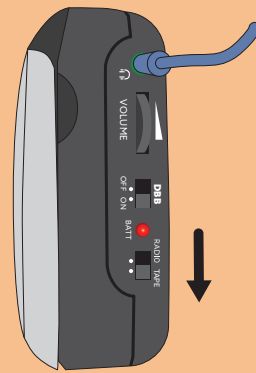
Open the cassette player door.



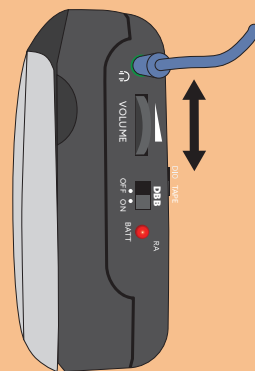
Place the cassette tape inside the cassette player.



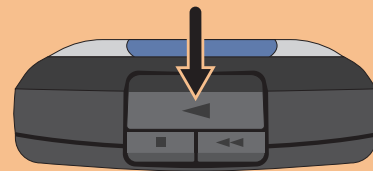
Plug the headphones into the headphone jack.



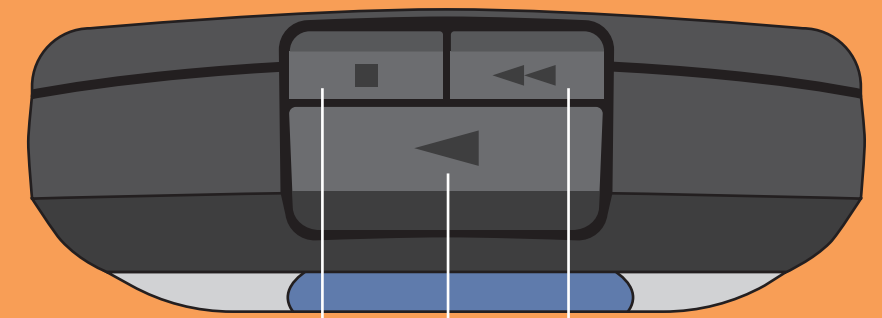
Check that the Radio/Tape toggle is set to Radio.



Adjust the volume slider to your preference.



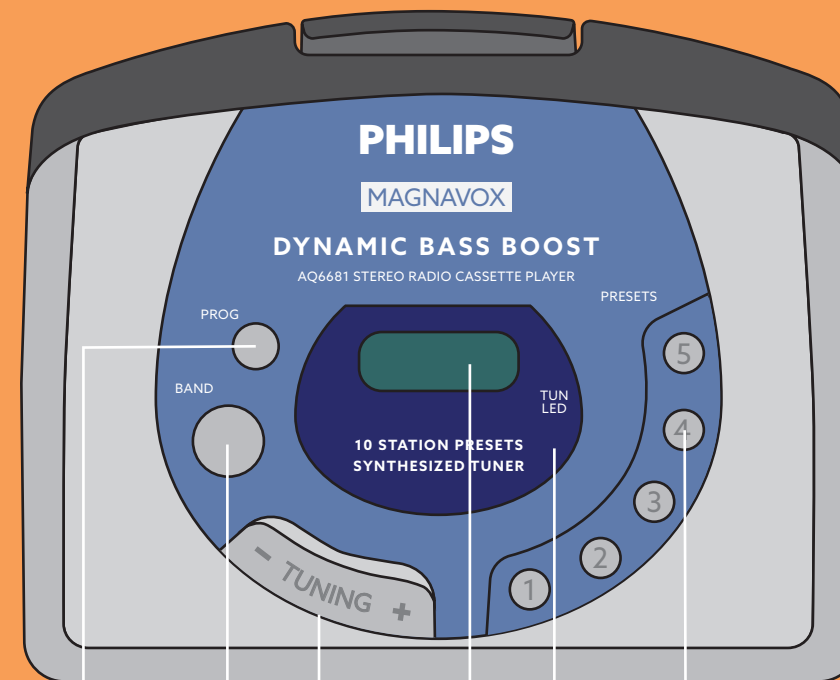
Press Play and rock out!



Stop

Play

Fast Forward



Prog Button

Band Button

Tuning Buttons

Screen

TUN LED Light

Station Presets



Headphone Jack

Volume Slider

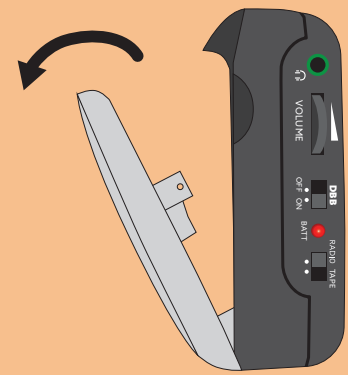
Dynamic Bass Boost Toggle

Battery Light

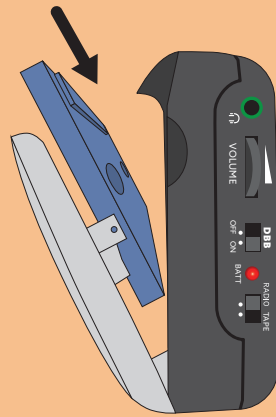
Radio/Tape Toggle

Door

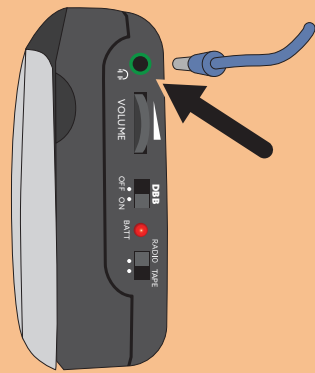
# RADIO STEREO CASSETTE PLAYER PHILIPS



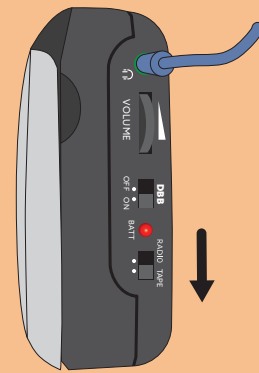
Open the cassette player door.



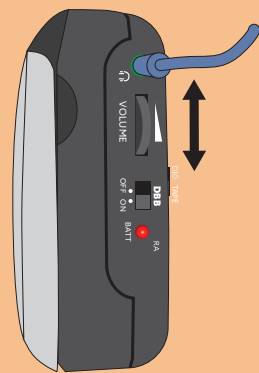
Place the cassette tape inside the cassette player.



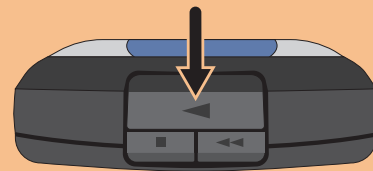
Plug the headphones into the headphone jack.



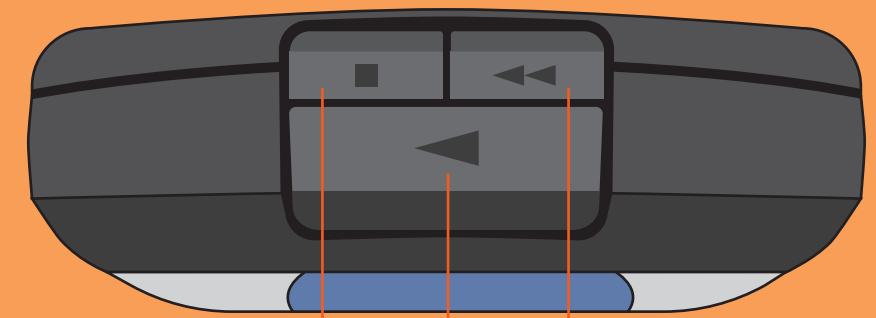
Check that the Radio/Tape toggle is set to Radio.



Adjust the volume slider to your preference.



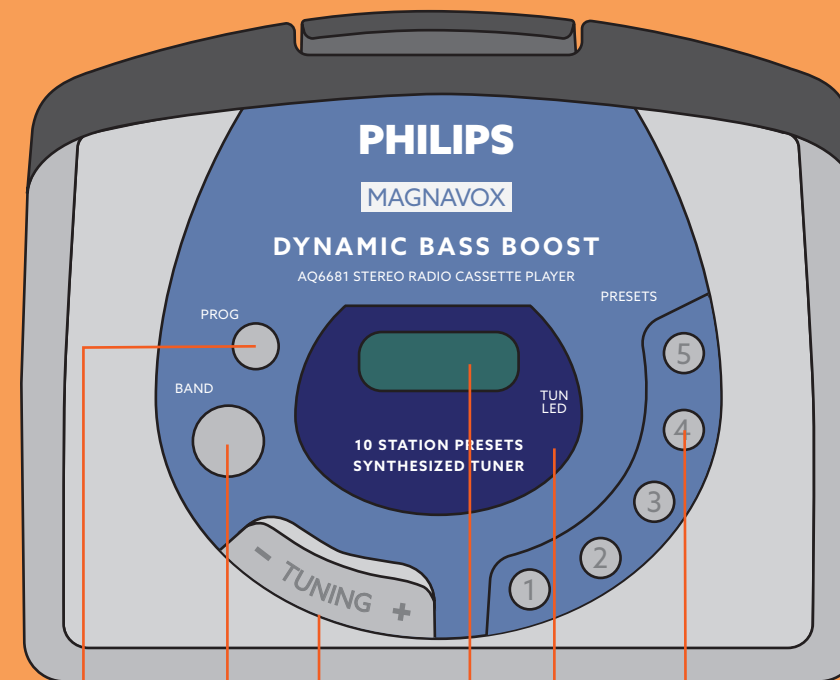
Press Play and rock out!



Stop

Play

Fast Forward



Prog Button

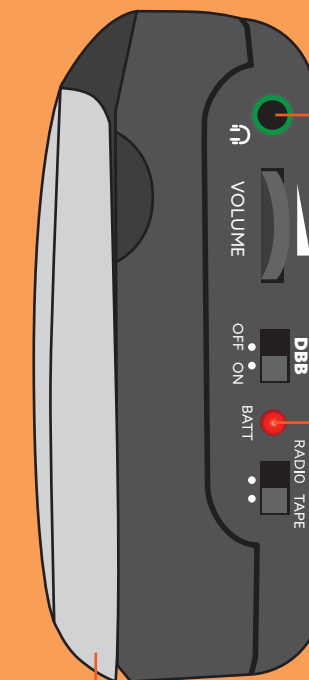
Band Button

Tuning Buttons

Screen

TUN LED Light

Station Presets



Headphone Jack

Volume Slider

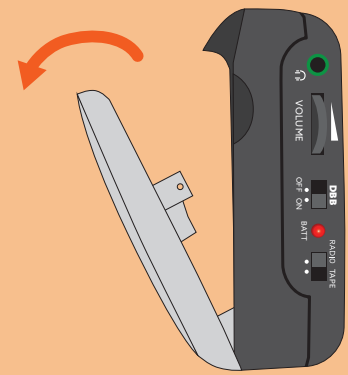
Dynamic Bass Boost Toggle

Battery Light

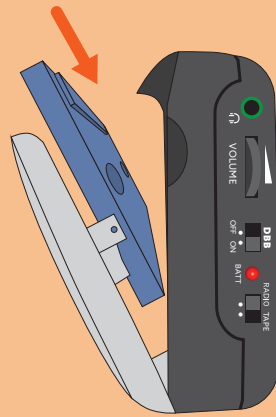
Radio/Tape Toggle

Door

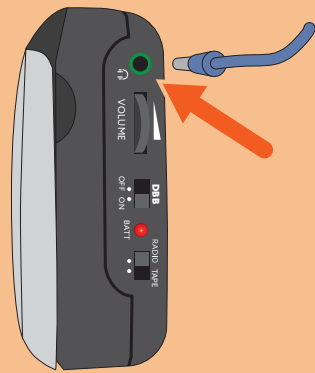
# RADIO STEREO CASSETTE PLAYER PHILIPS



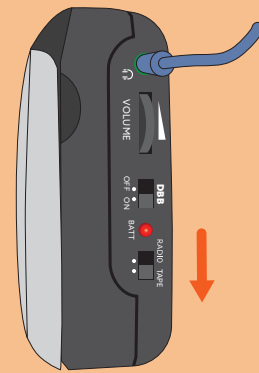
Open the cassette player door.



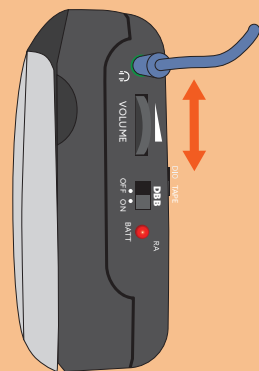
Place the cassette tape inside the cassette player.



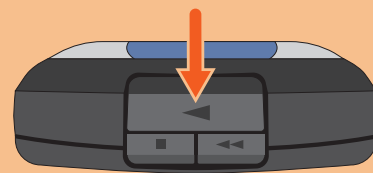
Plug the headphones into the headphone jack.



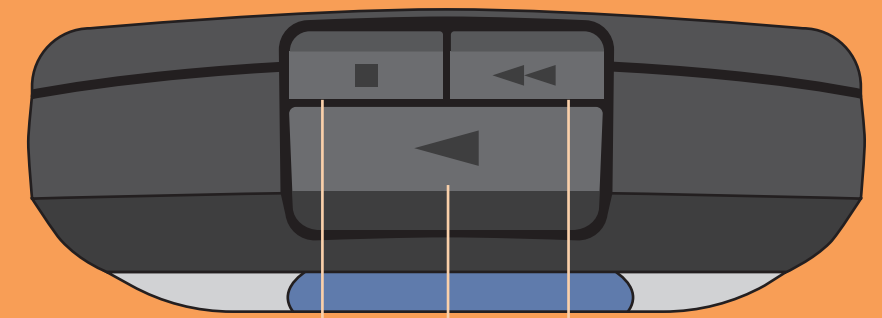
Check that the Radio/Tape toggle is set to Radio.



Adjust the volume slider to your preference.



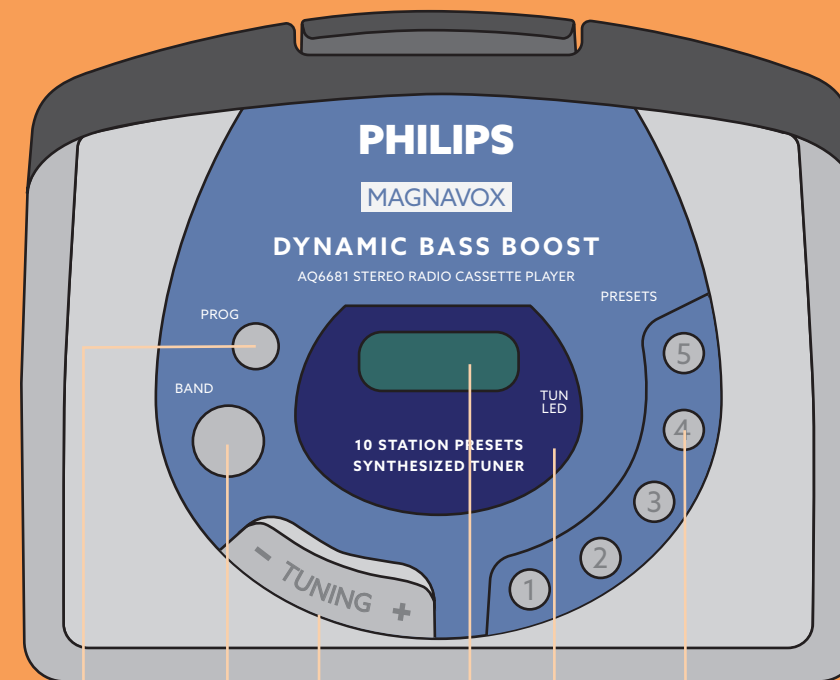
Press Play and rock out!



Stop

Play

Fast Forward



Prog Button

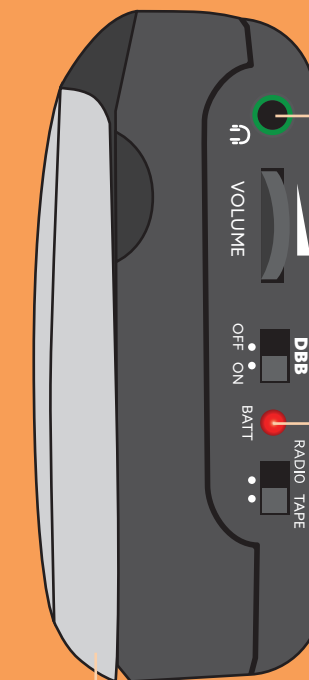
Band Button

Tuning Buttons

Screen

TUN LED Light

Station Presets



Headphone Jack

Volume Slider

Dynamic Bass Boost Toggle

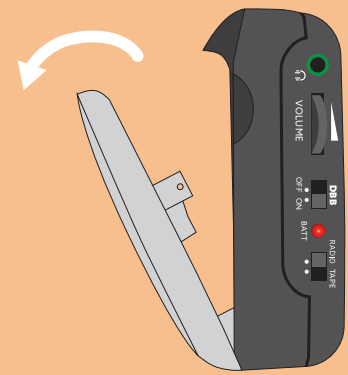
Battery Light

Radio/Tape Toggle

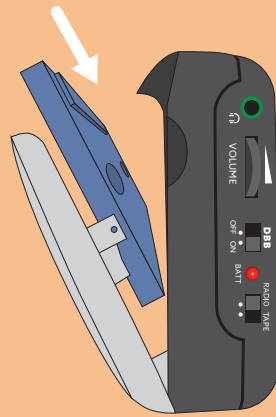
Door



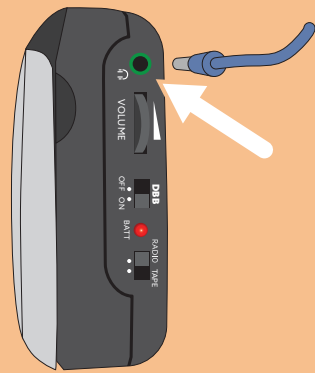
# RADIO STEREO CASSETTE PLAYER PHILIPS



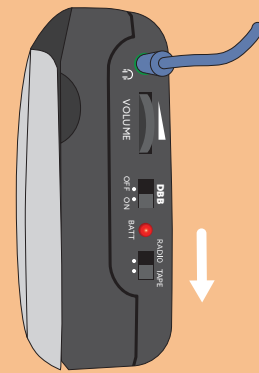
Open the cassette player door.



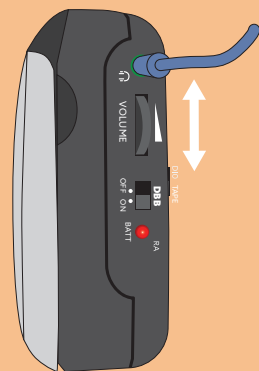
Place the cassette tape inside the cassette player.



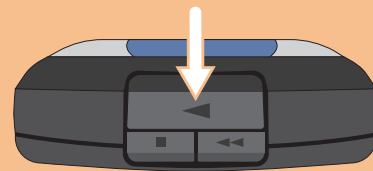
Plug the headphones into the headphone jack.



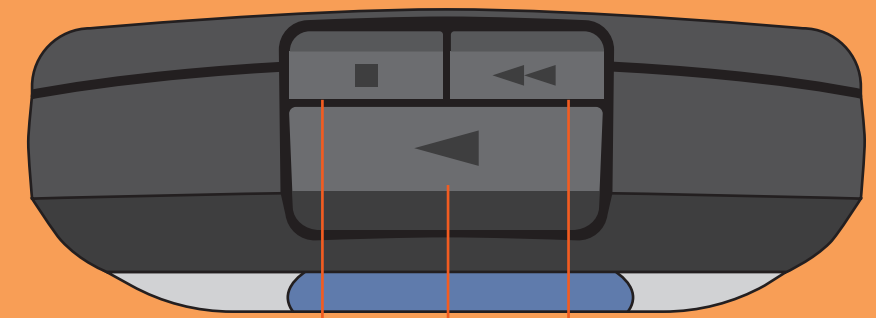
Check that the Radio/Tape toggle is set to Radio.



Adjust the volume slider to your preference.



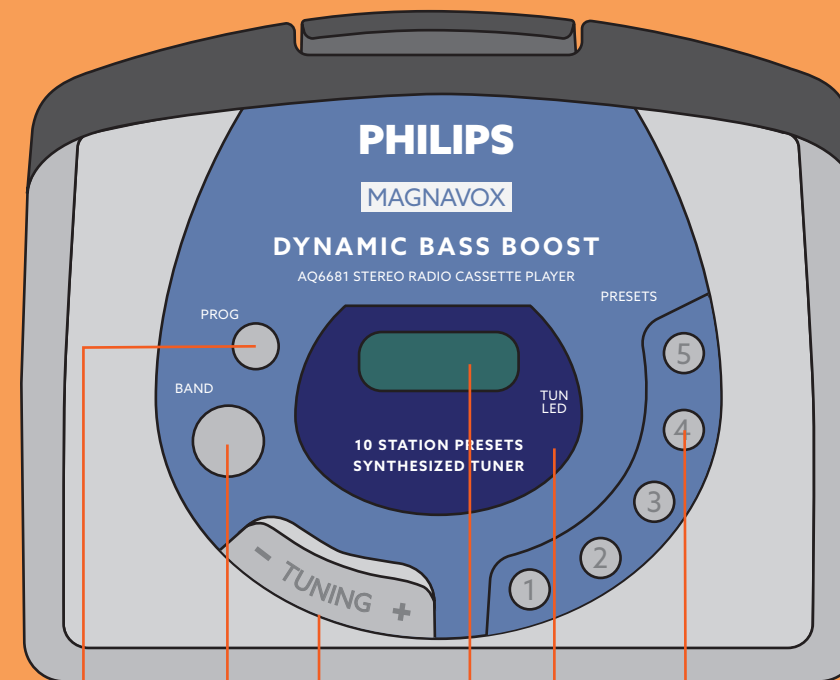
Press Play and rock out!



Stop

Play

Fast Forward



Prog Button

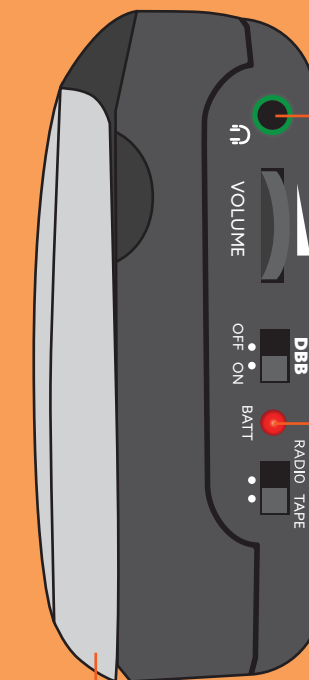
Band Button

Tuning Buttons

Screen

TUN LED Light

Station Presets



Headphone Jack

Volume Slider

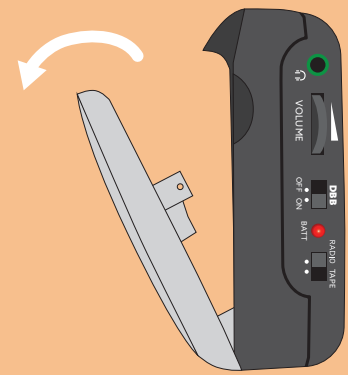
Dynamic Bass Boost Toggle

Battery Light

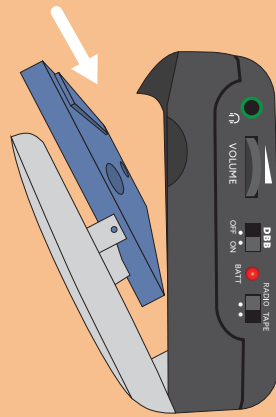
Radio/Tape Toggle

Door

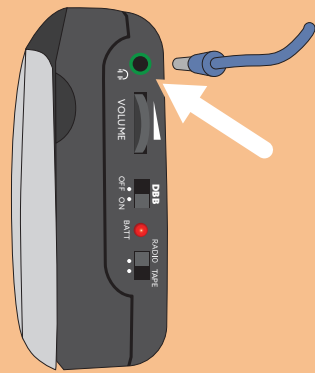
# RADIO STEREO CASSETTE PLAYER PHILIPS



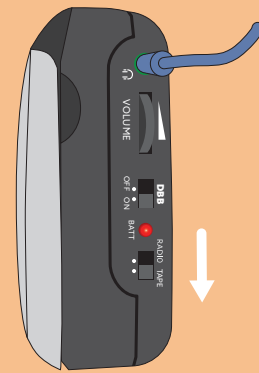
Open the cassette player door.



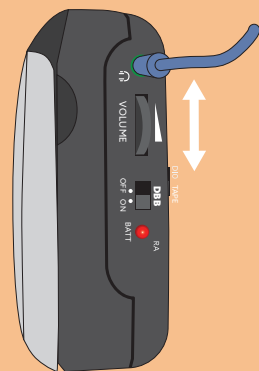
Place the cassette tape inside the cassette player.



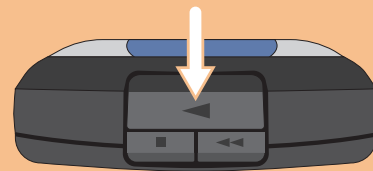
Plug the headphones into the headphone jack.



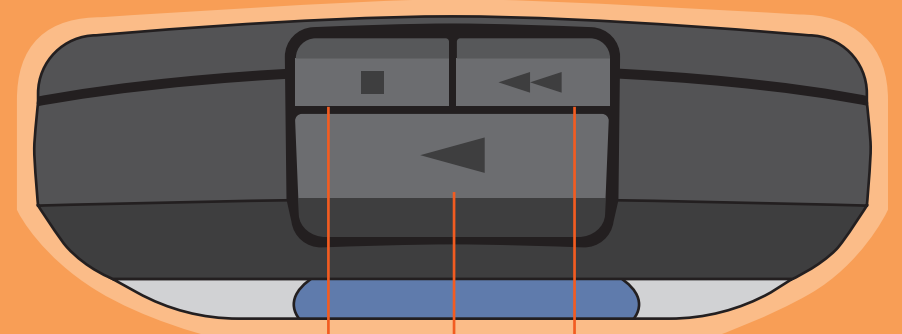
Check that the Radio/Tape toggle is set to Radio.



Adjust the volume slider to your preference.



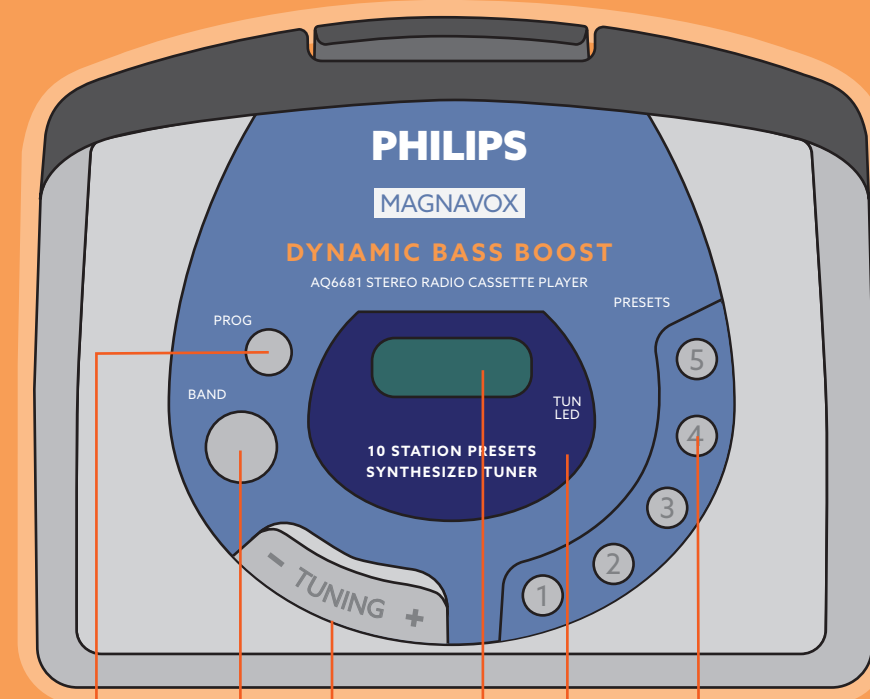
Press Play and rock out!



Stop

Play

Fast Forward



Prog Button

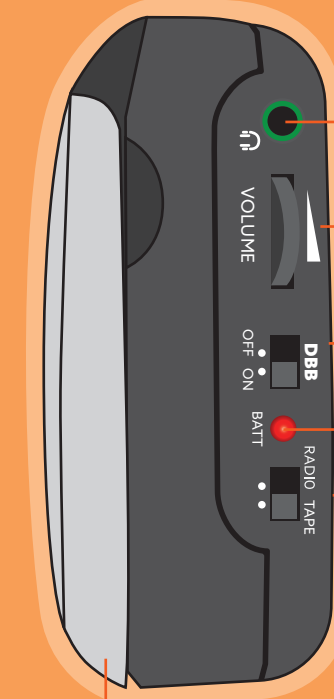
Band Button

Tuning Buttons

Screen

TUN LED Light

Station Presets



Headphone Jack

Volume Slider

Dynamic Bass Boost Toggle

Battery Light

Radio/Tape Toggle

Door