

ONKYO®

Speaker System

D-TK10

2-Way Bass Reflex Loudspeaker

Instruction Manual

Thank you for purchasing an Onkyo speaker system. Please read this manual thoroughly before using your new speakers. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your speaker system. Please retain this manual for future reference.

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Features

Woofers

■ State-of-the-art A-OMF diaphragm

A thicker and rigid flexing A-OMF diaphragm enables an extremely fast and accurate response, and a built-in dust cap substantially improves its rigidity.

■ Well-balanced drive unit

A voice coil with a diameter of 1-1/2" provides power, heat tolerance, and proper impedance. Positioning the drive unit in the optimal diaphragm location (instead of the conventional center position) reduces divisional vibration and extends the area for a piston-like motion.

■ New edge and damper

A new V-shaped support edge minimizes radial sound loss. The damper features an exceptionally quick response and a nearly vertical-symmetry of shape.

Tweeter

■ Ring drive

The tweeter features a ring diaphragm, the center of which does not vibrate. Based on detailed analysis, divisive vibration has been significantly reduced, and the area of piston-like motion has been expanded.

■ Reflection reducing structure

An anti-reflective structure has been implemented around the diaphragm. Detailed analysis helped determine the optimal shape for elements surrounding the diaphragm, and reduced unnecessary reflective vibrations.

Cabinet

■ Takamine Acoustic Voicing TECHNOLOGY

The speaker cabinet was developed jointly with Takamine, the world-famous guitar manufacturer. The materials, bracing, and finish are the same as used on Takamine guitars, and contribute to a rich, natural tonal output not only from the speaker unit, but from the entire cabinet as well. The cabinet is crafted from mahogany.

■ Base

The base is crafted from laminated rosewood.

Others

■ AERO ACOUSTIC DRIVE

■ Film capacitor manufactured by WIMA, Germany

■ Gold-plated brass terminals compatible with banana plugs

■ Laser-processed ONKYO logo

This product uses natural materials. Unlike products made from processed or synthetic materials, each unit features different wood pattern. This wood pattern reveals annual wood growth rings, which feature natural organic ring patterns and dark and light colors.

Onkyo strives to preserve natural elements in its products whenever possible, and hopes that you will enjoy the characteristics of this product as part of your musical entertainment.

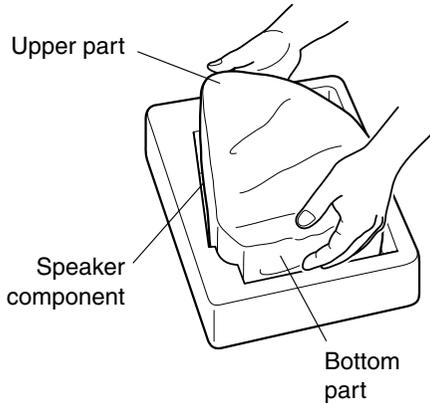
Onkyo pledges that finish quality is in strict compliance with all Onkyo QA standards.

Handling Precautions

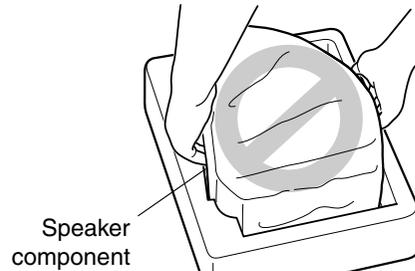
Do not handle the speakers with wet or damp hands.

■ Precautions for unpacking

- When you remove the unit from the package, be sure to hold the upper and bottom part of the unit securely.



- Do not touch the speaker component parts.



■ Cabinet

The speaker cabinet was crafted from the same materials and utilized the same processing technology and finish processing as Takamine guitars. The fine tone wood materials (which are usually reserved for guitars) is an organic, natural material, and is very susceptible and sensitive to environmental changes (compared to typical speakers).

Be careful not to expose the unit to extremely low or high humidity, or high temperatures. Otherwise, the unit may become deformed, or in the worst case, may crack.

Pay proper attention to the environmental conditions of your installation location.

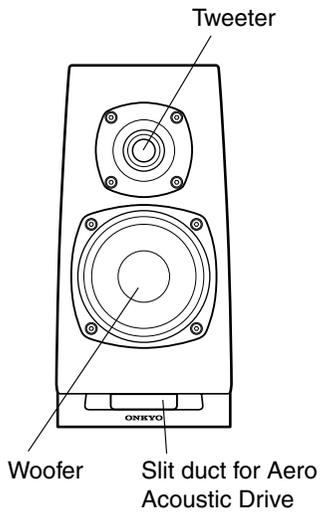
■ Re-locating the unit

When you re-locate the unit, hold the bottom of the unit securely from the sides. Do not touch the speaker component parts with your hand. Otherwise, the speaker components may be damaged.

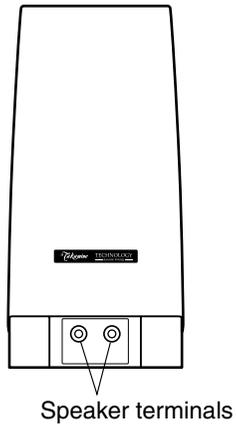
Be careful not to drop the speaker. The speaker's protective cover is slippery. If the protective cover is attached to the unit, remove the cover before you move the unit. If you try to hold the sides of the speaker while the protective cover is attached, the speaker may fall, resulting in injury or damage.

Getting to Know Your Speakers

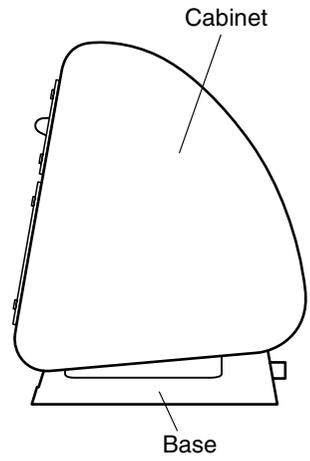
Front



Rear



Side



Connecting the Speakers

Before connecting your speakers

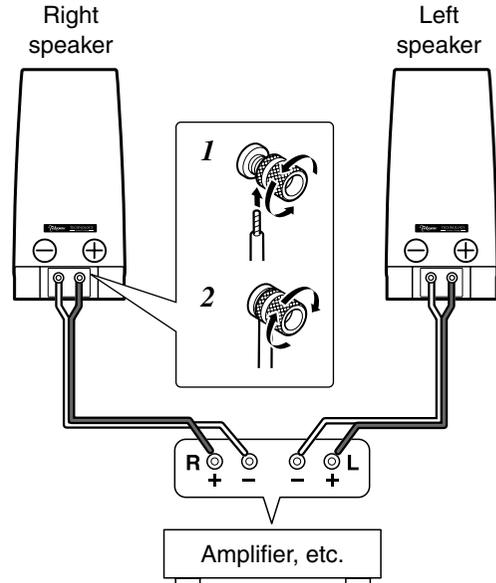
Read the following before connecting your speakers.

- Turn off your amplifier before making any connections.
- The nominal impedance of these speakers is 4 ohms. Use only an amplifier that supports this impedance.
- Be sure to connect the speaker wires with the correct polarity. Connect the speaker's positive (+) binding post to your amplifier's positive (+) terminal, and the negative (-) binding post to its negative (-) terminal. If the polarity is incorrect, bass output will be greatly reduced and the sound will be unclear. In addition, be sure to connect the left and right speakers to the corresponding left and right terminals on your amplifier.
- **Make sure that the positive (+) and negative (-) speaker wires are not touching each other. Shorting speaker wires may seriously damage your amplifier.**
- As you make each connection, lightly tug each speaker wire to make sure that it's connected securely.



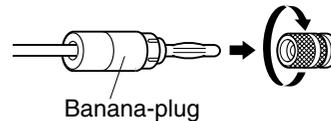
Speaker hookup

1. Loosen the speaker terminals.
2. Insert the speaker wires into the speaker terminals as shown, and tighten the speaker terminals.



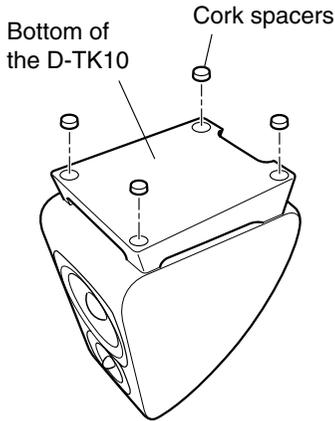
Tip:

- The speaker terminals can be used with commercially available speaker cables fitted with banana plugs. Before inserting a plug, tighten the speaker terminals first.



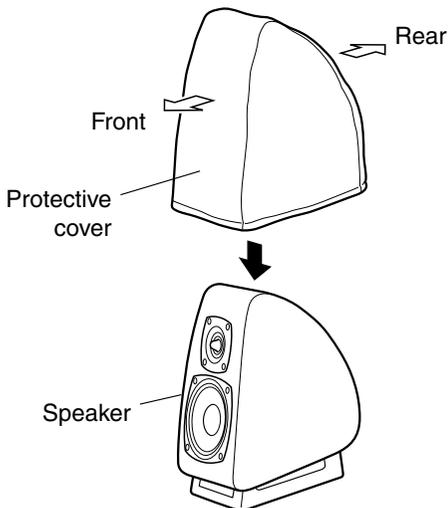
Fitting the Cork Spacers

To get the best sound from the speakers, we recommend that you fit the supplied cork spacers. This will also improve their stability and prevent them from slipping.



Attaching the Included Protective Cover

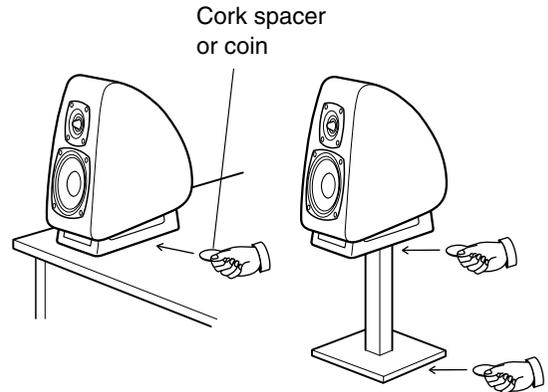
If you plan not to use the speaker for a long period of time, attach the included protective cover to protect the speaker from dust, scratches, or sun damage. To attach the cover, first make sure the front and rear of the cover are properly oriented. To remove the cover, slowly raise the cover so that it will not be caught by the speaker surface.



Speaker Placement

The quality of the sound produced by the speakers is directly affected by the size and shape of the room in which they're used and its furnishings. When deciding where to place the speakers, read the following:

- If possible, mount the speakers on speaker stands, concrete blocks, bricks, or a sturdy bookshelf. Putting them directly on the floor will emphasize bass sounds, resulting in a boomy sound.
- If a speaker is placed on an uneven surface, it may wobble or vibrate and adversely affect bass performance. You can eliminate speaker wobble by putting a cork spacer or metal, such as a coin, underneath the speaker or stand, as shown.
- If you place the speakers on a flat surface, such as a bookshelf, you can improve the sound quality by inserting cork spacers or metal, such as a coin, underneath each speaker. Raising the speaker off the flat surface a little will reduce the contact area and improve the sound quality.



- If you like lots of bass, mount the speakers on low speaker stands and place them in front of a solid wall.
- Walls and furnishings can also affect sound quality. For good stereo imaging, put the left and right speakers in similar locations at the same distance away from your listening position and at the same height. If you put them in totally different locations, for example, one on the floor and the other on a bookshelf, the stereo imaging will be poor.
- To determine the best positions for the speakers, imagine an equilateral triangle and put the left and right speakers at the ends of its base. The perfect listening position will be at or slightly behind the triangle's apex. Angle the speakers slightly toward your listening position.
- Glass doors and smooth walls behind the listening position can reflect the sound from the speakers and can make sounds at certain frequencies louder. You can prevent this by hanging sound-absorbing material such as thick curtains on the door or wall.

Speaker Care

To maintain the appearance of the speakers, you should wipe them periodically with a soft, dry cloth. Stubborn stains can be removed by using a soft cloth dampened with water and a mild detergent. Dry the speakers immediately afterward with a clean, dry cloth. Do not use abrasive cloths, thinners, alcohol, or any other chemical solvents because they may damage the finish.

Using Close to a TV or Computer

TVs and computer monitors are magnetically sensitive devices and as such are likely to suffer from discoloration or picture distortion when conventional speakers are placed nearby. To prevent this, the D-TK10 speakers feature internal magnetic shielding. In some situations, however, discoloration may still be an issue. In this case, turn off your TV or monitor, wait 15 to 30 minutes, and then turn it back on again. This normally activates the degaussing function, which neutralizes the magnetic field, thereby removing any discoloration effects. If discoloration problems persist, try moving the speakers away from your TV or monitor. Note that discoloration can also be caused by a magnet or demagnetizing tool that's too close to your TV or monitor.

Notes:

- If the speakers are placed close to a TV or monitor, due to the electromagnetic waves radiated by the TV or monitor, you may hear noise from the speakers even after your amplifier has been turned off. In this case, position the speakers away from your TV or monitor.
- The speakers contain powerful magnets. Do not put metal items, such as screwdrivers, close to the speakers, as they may be attracted toward the magnet, causing damage to the diaphragm or injury.

Precautions

The speakers can handle the specified input power when used for normal music reproduction. If they're fed any of the following signals, even if the input power is within the specified rating, excessive current may flow in the speaker coils, causing burning or wire breakage:

1. Interstation noise from an untuned FM radio.
2. Audio from a cassette that's being fast-forwarded.
3. High-pitched sounds generated by an oscillator, electronic musical instrument, and so on.
4. Amplifier oscillation.
5. Special test tones from audio test CDs and so on.
6. Thumps and clicks caused by connecting or disconnecting audio cables (always turn off your amplifier before connecting or disconnecting cables).
7. Microphone feedback.

Specifications

Type:	2-way bass reflex
Impedance:	4 Ω
Maximum input power:	200 W
Output sound pressure level:	80 dB/W/m
Frequency response:	50 Hz–100 kHz
Crossover frequency:	3.5 kHz
Cabinet capacity:	4.2 L
Dimensions:	5-1/4" \times 10-7/8" \times 8-11/16" 133 (W) \times 276 (H) \times 220 (D) mm (Overall dimensions)
Weight:	6.4 lbs (2.9 kg)
Woofers:	4" (10 cm) A-OMF cone
Tweeters:	1-3/16" (3 cm) ring-drive
Terminals:	Gold-plated brass terminals that are compatible with banana plugs
Others:	Magnetic shielding
Accessories:	Cork spacer \times 8 Protective cover \times 2

Specifications and appearance are subject to change for improvement without prior notice.

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