



6.1ch Home Theater Speaker Package

SKS-HT520 HTP-520

- SKW-520** **POWERED SUBWOOFER**
- SKF-520F** **FRONT SPEAKER**
- SKC-520C** **CENTER SPEAKER**
- SKM-520S** **SURROUND SPEAKER**
- SKB-520** **SURROUND BACK SPEAKER**

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Instruction Manual

Thank you for purchasing an Onkyo home theater speaker package. 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 package.
Please retain this manual for future reference.



WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.




The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

PORTABLE CART WARNING



S3125A
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Damage Requiring Service

Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:

 - A. When the power-supply cord or plug is damaged,
 - B. If liquid has been spilled, or objects have fallen into the apparatus,
 - C. If the apparatus has been exposed to rain or water,
 - D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
 - E. If the apparatus has been dropped or damaged in any way, and
 - F. When the apparatus exhibits a distinct change in performance this indicates a need for service.
16. Object and Liquid Entry

Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

Don't put candles or other burning objects on top of this unit.
17. Batteries

Always consider the environmental issues and follow local regulations when disposing of batteries.
18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.

Precautions

1. AC Fuse

The fuse is located inside the chassis and is not user-serviceable. If power does not come on, contact your Onkyo authorized service station.

2. Care

From time to time you should wipe off the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these may damage the finish or remove the panel lettering.

Use a vacuum cleaner to remove dust from hard-to-reach grilles.

3. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., AC 120 V, 60 Hz) written on the rear panel.

Auto standby function does not fully shutdown the SKW-520. If you do not intend to use the SKW-520, remove the power cord from the AC outlet.

For Canadian models

For models having a power cord with a polarized plug:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

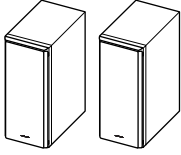
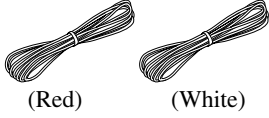
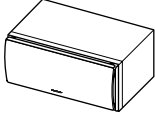
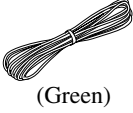
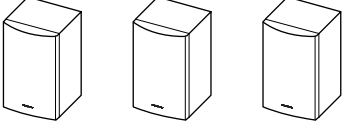

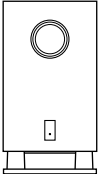

Modèle pour les Canadien

Sur les modèles dont la fiche est polarisée:

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Package Contents

Make sure your box contains all of the items below. If anything is missing, contact the nearest Onkyo dealer.

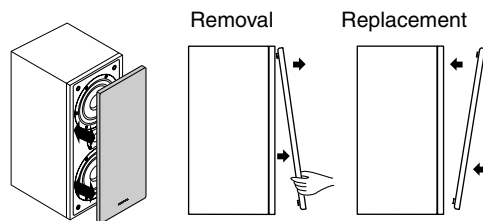
- Front speakers (SKF-520F) 
- Speaker cable for front speakers 15 ft. (4.5 m)  (Red) (White)
- Center speaker (SKC-520C) 
- Speaker cable for center speaker 10 ft. (3 m)  (Green)
- Surround speakers (SKM-520S/SKB-520) 
- Speaker cables for surround speakers 30 ft. (9 m)  (Blue) (Gray) (Brown)
- Subwoofer (SKW-520) 
- RCA cable for subwoofer connection 

The alphabet displayed at the end of the product name found in catalogs and on package represents the color of the system. Though the color varies, the specifications and operations are the same.

■ Attaching and detaching the speaker grilles

Front and Center speakers have detachable grilles. Use the following method to attach or detach the grilles.

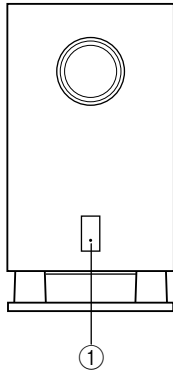
1. While holding the bottom edge of the speaker grille with your both hands, pull it gently toward you to remove the bottom of the grille.
2. In the same way, gently pull the upper edge of the speaker grille toward you to remove it from the main unit.
3. To replace the grill, push the projections at the corners into the grille plug holes on the speaker cabinet.



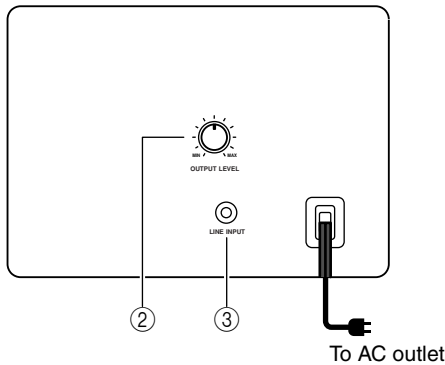
Getting to know Your Speaker Package

Subwoofer (SKW-520)

■ Front



■ Rear



① STANDBY/ON indicator

Red: Subwoofer in standby mode

Green: Subwoofer on

With the Auto Standby function, the SKW-520 automatically turns on when an input signal is detected in Standby mode. When there's no input signal for a while, the SKW-520 automatically enters Standby mode.

② OUTPUT LEVEL control

This control is used to adjust the volume of the subwoofer.

③ LINE INPUT

This RCA input should be connected to the subwoofer pre out on your AV receiver, amp, or other receiver with supplied RCA cable.

If you are also using the HT-R520:

Connect this input to the subwoofer pre out of the HT-R520.

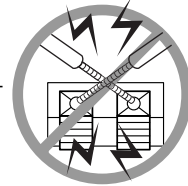
Note:

The Auto Standby function turns the subwoofer on when the input signal exceeds a certain level. If the Auto Standby function does not work reliably, try slightly increasing or decreasing the subwoofer output level on your receiver or amp.

Connecting the Speakers

Read the following before connecting your speakers:

- Turn off your amp before making any connections.
- Pay close attention to speaker wiring polarity. Connect positive (+) terminals to only positive (+) terminals, and negative (-) terminals to only negative (-) terminals. If the speakers are wired incorrectly, the sound will be out of phase and will sound unnatural.
- Be careful not to short the positive and negative wires. Doing so may damage your amp.

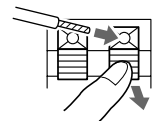


Connecting the Speaker Cables

1 Use the supplied cables to connect each speaker's input terminals to the corresponding speaker output terminals on your AV receiver.

Match the color of each cable to the corresponding speaker terminal.

To make a connection, while pressing the terminal lever, insert the wire into the hole, and then release the lever.

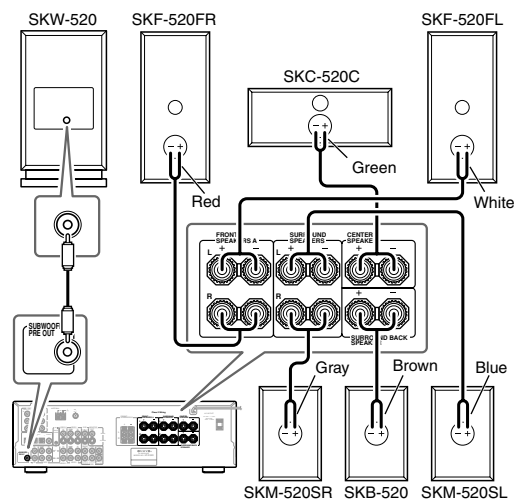


Make sure that the terminals are gripping the bare wires, not the insulation.

Connecting the Subwoofer

1 Using the supplied RCA cable, connect the subwoofer's LINE INPUT to your AV receiver's SUBWOOFER PRE OUT.

Example, adding the HT-R520:



About Home Theater

Enjoying Home Theater

The Home Theater means that you can enjoy surround sound with a real sense of movement in your own home—just like being in a movie theater or concert hall.

Front left and right speakers

These output the overall sound. Their role in a home theater is to provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equidistant from the TV. Angle them inward so as to create a triangle, with the listener at the apex.

Center speaker

This speaker enhances the front left and right speakers, making sound movements distinct and providing a full sound image. In movies it's used mainly for dialog.

Position it close to your TV facing forward at about ear level, or at the same height as the front left and right speakers.

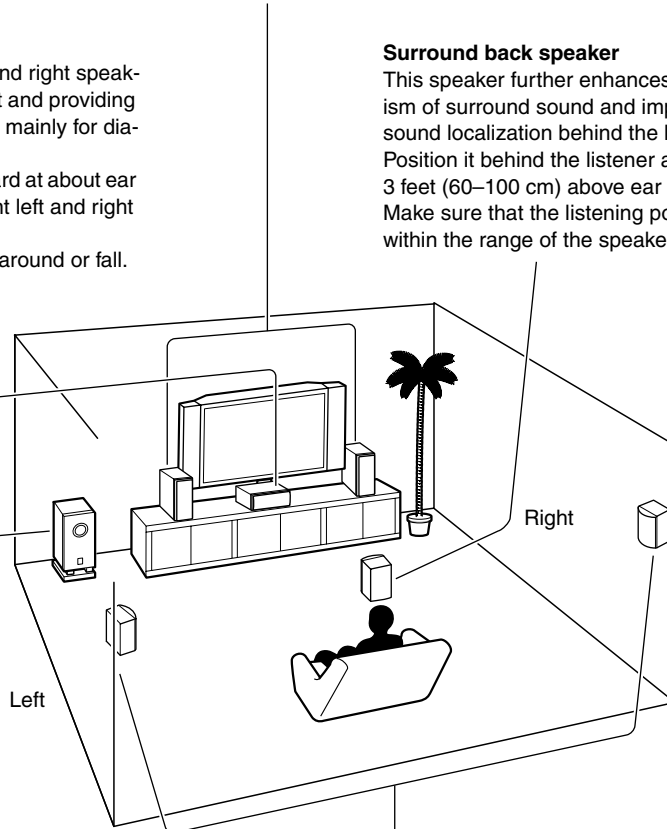
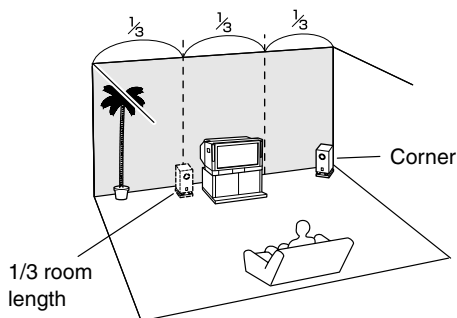
Put it somewhere where it won't slide around or fall.

Surround back speaker

This speaker further enhances the realism of surround sound and improves sound localization behind the listener. Position it behind the listener about 2–3 feet (60–100 cm) above ear level. Make sure that the listening position is within the range of the speaker.

Subwoofer

The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position. In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the width of the wall, as shown.



Surround left and right speakers

These speakers are used for precise sound positioning and to add realistic ambience. Position them at the sides of the listener, or slightly behind, about 2–3 feet (60–100 cm) above ear level. Ideally they should be equidistant from the listener.

Wall-mounting the surround speakers

If the surround speakers are to be wall-mounted, make sure that the walls are strong enough to support the speaker's weight. The weight that mounting screws can support varies greatly depending on the wall material and the position of the reinforcing ribs embedded in the wall.

Use long screws with a head diameter of 1/4 inch (6.3 mm) or less and a shank diameter of 1/8 inch (3.5 mm) or less. (We recommend that you consult a home installation professional.)

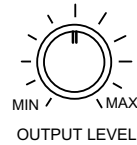
Power Cord Precautions

- Before connecting the power cord, connect all of your speakers and AV components.
- Turning on the SKW-520 may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the SKW-520 into a different branch circuit.

Adjustment

Setting the Subwoofer Level

To set the level of the subwoofer, use the OUTPUT LEVEL control. Set it so that bass sounds are evenly balanced with the treble sounds from the other speakers. Because our ears are less sensitive to very low bass sounds, there's a temptation to set the level of the subwoofer too high. As a rule of thumb, set the subwoofer level to what you think is the optimal level, and then back it off slightly.



Operating Precautions

Placement

- The speaker cabinets are made out of wood and are therefore sensitive to extreme temperatures and humidity, do not put them in locations subject to direct sunlight or in humid places, such as near an air conditioner, humidifier, bathroom, or kitchen.
- Do not put water or other liquids close to the speakers. If liquid is spilled over the speakers, the drive units may be damaged.
- Speakers should only be placed on sturdy, flat surfaces that are free from vibration. Putting them on uneven or unstable surfaces, where they may fall and cause damage, will affect the sound quality.
- Subwoofer is designed to be used in the upright vertical position only. Do not use it in the horizontal or tilted position.
- If the unit is used near a turntable or CD player, howling or slipping of sound may occur. To prevent this, move the unit away from the turntable or CD player otherwise lower the unit's output level.

Using Close to a TV or Computer

TVs and computer monitors are magnetically sensitive devices and as such are likely to suffer discoloration or picture distortion when conventional speakers are placed nearby. To prevent this, the SKF-520F and SKC-520C feature internal magnetic shielding. In some situations, however, discoloration may still be an issue, in which case you should 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.

Input Signal Warning

The speakers can handle the specified input power when used for normal music reproduction. If any of the following signals are fed to them, 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. Sound from fast-forwarding a cassette tape.
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.

Troubleshooting

Symptom	Possible cause	Remedy
There's no sound coming from certain speakers?	The speaker cables are not connected properly.	Check the speaker cables and correct as necessary.
	The speaker configuration is not set correctly.	Check the speaker configuration.
The subwoofer does not turn on?	The power plug is not fully inserted into the wall outlet.	Insert the power plug fully into the wall outlet.
The subwoofer produces no sound?	The OUTPUT LEVEL control is set to minimum.	Turn up the OUTPUT LEVEL control.
	The RCA cable is not properly connected to the subwoofer's LINE INPUT.	Make sure that the RCA cable is properly connected to the subwoofer's LINE INPUT.
	The level of the input signal was too low and the subwoofer entered Standby mode.	Slightly increase the subwoofer pre out output level on your AV receiver.
	The Subwoofer configuration is not set correctly. For HT-R520 speaker package: The subwoofer setting is set to No in the speaker configuration on the HT-R520.	Check the subwoofer setting in the speaker configuration on your AV receiver.
The subwoofer produces hardly any sound?	The source material contain little or no bass content.	Choose source material with more bass content.
A humming sound can be heard from the subwoofer?	The RCA cable is not properly connected to the subwoofer's LINE INPUT.	Make sure that the RCA cable is properly connected to the subwoofer's LINE INPUT.
	External interference from a TV or other electronic device is being picked up.	Move the subwoofer and RCA cable away from the interference source. Make sure your audio system is grounded properly.

Specifications

■ Powered Subwoofer (SKW-520)

Type: Bass-reflex
 Input sensitivity/impedance: 330 mV / 100 kΩ
 Maximum output power: 220 W (Dynamic Power)
 Frequency response: 25 Hz–150 Hz
 Cabinet capacity: 1.35 cubic feet (38.5 L)
 Dimensions (W × H × D): 10-13/16" × 20-3/8" × 16-3/16"
 (275 × 518 × 411 mm)
 Weight: 30 lbs. (13.6 kg)
 Drivers unit: 10 inch Cone Woofer
 Power supply: AC 120 V, 60 Hz
 Power consumption: 150 W
 Other: Auto Standby function

■ Front Speaker (SKF-520F)

Type: 2 Way Bass-reflex
 Impedance: 8 Ω
 Maximum input power: 130 W
 Output sound pressure level: 87 dB/W/m
 Frequency response: 55 Hz–50 kHz
 Crossover frequency: 4.5 kHz
 Cabinet capacity: 0.38 cubic feet (10.8 L)
 Dimensions (W × H × D): 7-7/16" × 16-1/2" × 9-5/16"
 (189 × 419 × 236 mm)
 Weight: 12.1 lbs. (5.5 kg)
 Drivers unit: 5-1/4 inch OMF Cone Woofer × 2
 1 inch Balanced Dome
 Terminal: Color-coded push type
 Other: Magnetic shielding

■ Center Speaker (SKC-520C)

Type: 2 Way Bass-reflex
 Impedance: 8 Ω
 Maximum input power: 130 W
 Output sound pressure level: 85 dB/W/m
 Frequency response: 60 Hz–50 kHz
 Crossover frequency: 4.5 kHz
 Cabinet capacity: 0.27 cubic feet (7.7 L)
 Dimensions (W × H × D): 15-1/4" × 6-3/16" × 7-15/16"
 (387 × 157 × 202 mm)
 Weight: 8.2 lbs. (3.7 kg)
 Speaker: 4 inch OMF Cone Woofer × 2
 1 inch Balanced Dome
 Terminal: Color-coded push type
 Other: Magnetic shielding

■ Surround Speaker (SKM-520S/SKB-520)

Type: 2 Way Bass Reflex
 Impedance: 8 Ω
 Maximum input power: 130 W
 Output sound pressure level: 82 dB/W/m
 Frequency response: 60 Hz–50 kHz
 Crossover frequency: 5 kHz
 Cabinet capacity: 0.09 cubic feet (2.7 L)
 Dimensions (W × H × D): 6-7/8" × 10-7/16" × 4-15/16"
 (175 × 265 × 125 mm)
 Weight: 3.7 lbs. (1.7 kg)
 Speaker: 4 inch Cone Woofer
 1 inch Balanced Dome
 Terminal: Color-coded push type

Specifications and appearance are subject to change without prior notice.

ONKYO CORPORATION

Sales & Product Planning Div. : 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN
Tel: 072-831-8023 Fax: 072-831-8124

ONKYO U.S.A. CORPORATION

18 Park Way, Upper Saddle River, N.J. 07458, U.S.A.
Tel: 201-785-2600 Fax: 201-785-2650 <http://www.onkyousa.com>

ONKYO EUROPE ELECTRONICS GmbH

Liegnitzerstrasse 6, 82194 Groebenzell, GERMANY
Tel: +49-8142-4401-0 Fax: +49-8142-4401-555 <http://www.onkyo.net>

ONKYO CHINA LIMITED

Units 2102-2107, Metroplaza Tower I, 223 Hing Fong Road, Kwai Chung,
N.T., HONG KONG Tel: 852-2429-3118 Fax: 852-2428-9039



SN 29343707

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