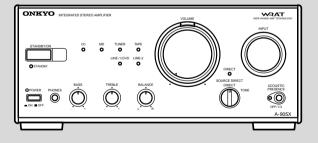
Integrated Stereo Amplifier A-905X

Instruction Manual



Before using Thank you for purchasing ...

Thank you for purchasing the ONKYO A-905X Integrated Stereo Amplifier.

Please read this manual thoroughly before making any connection or turning on the power. Follow these instructions to obtain optimum performance and maximum listening enjoyment from your new A-905X. Please retain this manual for future reference.

Main Features

- Individually designed as the high-quality Separate Collection Series
- 4 ohm-drive capability with discrete output stage circuit
- Input selector for six audio sources
- Remote control operable with RI-connected ONKYO components

Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in order to charge the back-up system.

The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE 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 SHOC DO NOT OPEN







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 Safeguards

- Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- Heed Warnings All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be followed.
- Water and Moisture The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
- Carts and Stands The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



- Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8. **Ventilation** The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or if placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings, there should be free space of at least 20 cm (8 in.) and an opening behind the appliance.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

- Power Sources The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 11. **Polarization** If the appliance is provided with a polarized plug having one blade wider than the other, please read the following information: The polarization of the plug is a safety feature. The polarized plug will only fit the outlet one way. If the plug does not fit fully into the outlet, try reversing it. If there is still trouble, the user should seek the services of a qualified electrician. Under no circumstances should the user attempt to defeat the polarization of the plug.
- 12. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, especially near plugs, convenience receptacles, and the point where they exit from the appliance.
- 13. **Cleaning** The appliance should be cleaned only as recommended by the manufacturer.
- Nonuse Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- Damage Requiring Service The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
- 17. Servicing The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Precautions

1. Warranty Claim

You can find the serial number on the rear panel of this unit. In case of warranty claim, please report this number.

2. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

3. 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.

4. Care

From time to time you should wipe 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 could damage the finish or remove the panel lettering.

5. Power WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CARE-FULLY.

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 230 V, 50 Hz or AC 120 V, 60 Hz) written on the rear panel.

Declaration of Conformity

We, ONKYO EUROPE ELECTRONICS GmbH INDUSTRIESTRASSE 20 82110 GERMERING, GERMANY



declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3 (or EN60555-2, -3)

GERMERING, GERMANY

K. Styn

ONKYO EUROPE ELECTRONICS GmbH

For British model

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Blue : Neutral Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IMPORTANT

A 5 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET. If in any doubt, please consult a qualified electrician.

For Canadian model

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.

Modele 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.

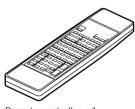
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Supplied accessories

Check that the following accessories are supplied with this unit.



Remote controller x 1 (RC-398S)



Batteries x 2 (Size AA, R6, or UM-3)



Connecting to the ONKYO Separate Collection Series components

This section introduces you to the other Separate Collection Series system components and their convenient system functions, followed by connecting instructions.

The following Separate Collection Series components are commercially available:

- T-405X Stereo Tuner
- K-505X Stereo Cassette Tape Deck
- C-705X Compact Disc (CD) Player (Not available in U.S.A and Canada)
- C-707CH Compact Disc (CD) Changer (Only available in U.S.A and Canada)
- MD-105X ... Minidisc (MD) Recorder (Not available in U.S.A and Canada)

Note that the available components may vary according to the area.

Combination use of the unit with the above system components enables you to operate the following convenient functions:

· Auto Power On

- You can turn on the unit by pressing the STANDBY/ON switch on one of the system components.
 (The unit's POWER switch must be set to ON.)
- You can turn on all the system components at the same time by pressing the STANDBY/ON switch on the unit. (The unit's POWER switch must be set to ON.)
 - You can turn off each component not in use independently afterwards.

· Direct Change

Press the following button on the component you want to operate to switch the unit's input selector automatically to that component:

- The play button on the CD player (or changer), MD recorder, or stereo cassette tape deck, or
- The PRESET
 ✓/ > buttons on the tuner.

Remote Control Operation

All the system components can be operated using the supplied remote controller (see "Remote control – Operating buttons for other components" on page 27). The remote control buttons operate in the same way as the buttons on each component with the same indication.

Program Timer

You can operate timer playback and recording using T-405X. (Refer to the T-405X instruction manual for more information.)

· Sleep Timer

You can fall asleep to a music/radio program using the timer. (Refer to the T-405X instruction manual for more information.)

CD Dubbing

Simple CD dubbing using the stereo cassette tape deck is possible with the pressing of a single button. (Refer to the K-505X instruction manual for more information.)

· CD/MD Synchro Recording

When using the stereo cassette tape deck to record from the CD player or MD recorder, you can start recording automatically (while the stereo cassette tape deck is in recording standby) at the same time as you start playing a CD or MD. (Refer to the K-505X instruction manual for more information.)

· Dubbing a specific track from CD

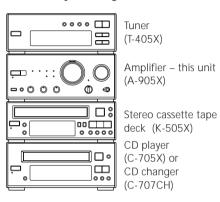
You can specify a track on a CD and easily dub it to a connected MD recorder. (Refer to the MD-105X instruction manual for more information.)

Arranging the system components

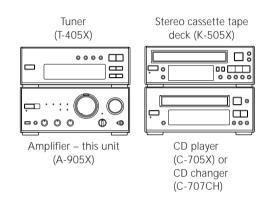
Combination example 1

Select the tuner T-405X, CD player C-705X (or CD changer C-707CH), and stereo cassette tape deck K-505X in addition to this unit. When you arrange these components, stack them as shown below.

Vertical way stacking



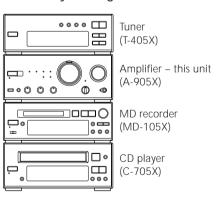
Horizontal way stacking



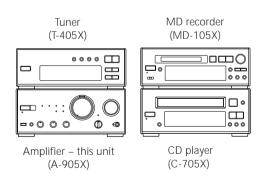
Combination example 2

Select the tuner T-405X, CD player C-705X and MD recorder MD-105X in addition to this unit. When you arrange these components, stack them as shown below.

Vertical way stacking



Horizontal way stacking



пр

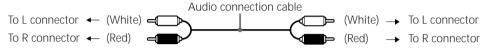
In addition to the above combination examples, you can also connect both the MD recorder MD-105X and stereo cassette tape deck K-505X with the tuner T-405X, CD player C-705X, and this unit.

Connecting to the ONKYO Separate Collection Series components

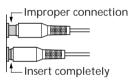
Connecting to the audio connector

Before connecting

- Do not connect the unit's AC power cord (mains lead) to a wall outlet (the mains) until you have completed all the other connections, including RI and AC OUTLET connections on page 10. Refer to "Connecting to components other than the Separate Collection Series" on page 11 and "Connecting speaker systems" on page 14.
- On each pair of connectors, a red connector (marked R) corresponds to the right channel, and a white connector (marked L) to the left channel. Connect white plugs of audio cables to L connectors and connect red plugs of audio cables to R connectors.



- Please refer to the instruction manual for each component when you make any connections.
- Insert the plug securely. If the connection is incomplete, noise or malfunction may result.

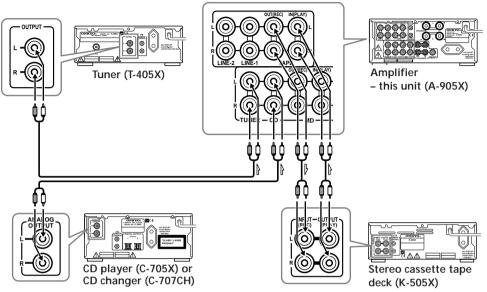


- When you use a digital audio optical cable, do not bend it sharply nor coil it tightly.
- Bundling an audio connection cable with the power cord or speaker cord may degrade the sound quality.
- Be sure to use the with each component (not supplied with the A-905X) to connect to the RI remote control jack. If the connection is incomplete, you will be unable to operate the device using the remote controller.
- CD players and MD recorders use heat-sensitive parts. Do not place them on top of the amplifier.

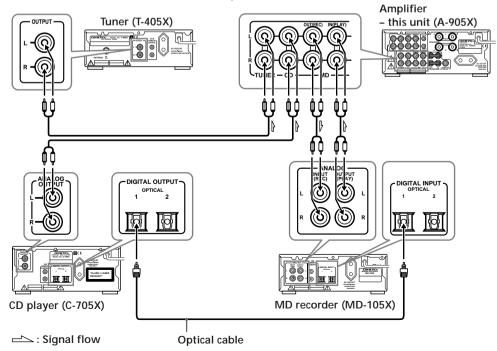
Note:

To connect both the MD recorder MD-105X and stereo cassette tape deck K-505X to the unit Connect the MD recorder to the unit following the "Connections for combination example 2" on the next page and connect the stereo cassette tape deck to the unit following the "Connections for combination example 1."

Connections for combination example 1



Connections for combination example 2



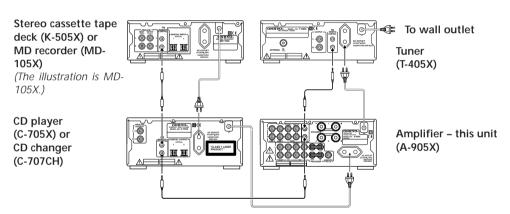
Connecting the RI connectors and AC OUTLETS

Before connecting

- The hookups on page 8 or 9 are needed in addition to the RI (for remote control operations) and AC OUTLET (for power supply to each component) hookups on this page.
- Each component has two RI connectors. There is no difference between those connectors. The components may be connected in any order.
- The RI cable for connecting the RI connectors is supplied with each component (not supplied with the unit).

Connections

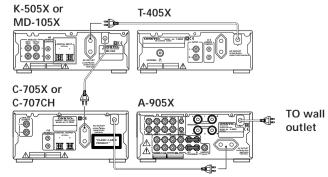
To use the Clock/Timer function of the tuner T-405X's, connect the power cord as shown below and connect the **RI** cable and audio connection cables (see pages 8 and 9). Be sure to connect the power cord of the T-405X to an AC outlet that supplies continuous power. Also, turn on the POWER switch on the A-905X to use the Timer function.



If you connect the power cord as shown below, you can turn off the power to the entire system by simply turning off the POWER switch on the amplifier A-905X.

Note:

If the system is connected so that you can use the tuner's T-405X Clock/Timer function, turning off the power to the entire system will turn off the power to the tuner, and the Clock and Timer functions will no longer function. If you wish to use the clock or Timer function, leave the POWER switch set to ON.

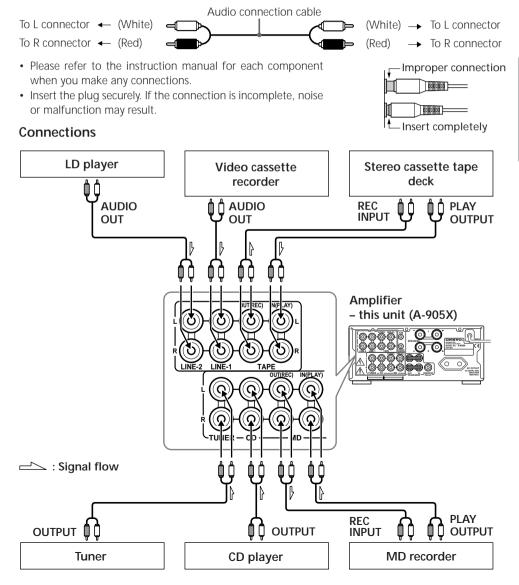


Connecting to components other than the Separate Collection Series

Connecting audio/video equipment to audio cables

Before connecting

- Do not connect the AC power cord (mains lead) to the wall outlet (the mains) until you have completed all the other connections including the sound processor connections on the next page, the RI connections on page 13, and the speaker connections on page 14.
- On each pair of connectors, a red connector (marked R) corresponds to the right channel, and a white connector (marked L) to the left channel. Connect white plugs of audio cables to L connectors and connect red plugs of audio cables to R connectors.



Connecting to components other than the Separate Collection Series

Connecting a sound processor

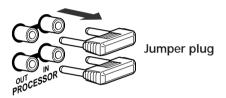
You can connect a sound processor (e.g. graphic equalizer, surround processor, etc.) to the unit.

Before connecting

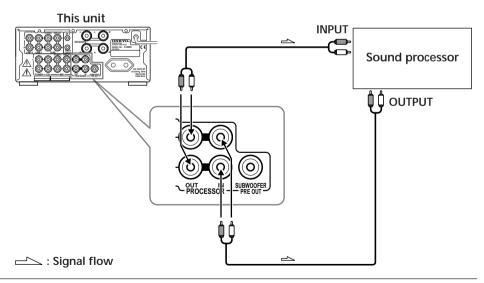
- Disconnect the jumper plugs using the PROCESSOR connectors.
 - Please retain them for future use.
 - Never connect the jumper plugs to the other connectors, as this may cause the unit to malfunction, so that the sound is not reproduced.
 - If you do not use the PROCESSOR connectors, reconnect the jumper plugs to them firmly.

Connections

1 Remove the jumper plugs.



2 Connect the sound processor to the unit.



Connecting the RI cables

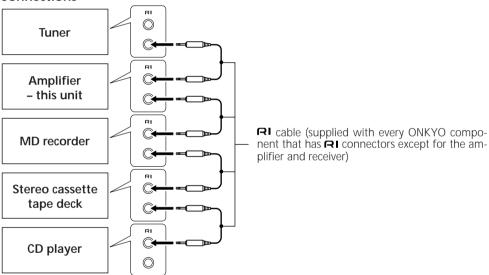
If your other components are made by ONKYO and those components are equipped with **RI** connectors, you can control the **RI**-connected components with the supplied remote controller.

Before connecting

- The unit must be connected in the RI system hookups for RI control operations.
- Each component has two RI connectors. There is no difference between these connectors.
- The components may be connected in any order.
- The hookups on the previous page are necessary independently of the RI system hookups.

The illustration below is an example of a RI hookup.

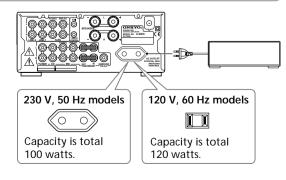
Connections



AC outlet connection

You can connect the power cord from another audio device to the rear of the A-905X. Since the AC outlet on the unit is a SWITCHED type outlet, you can use the POWER switch to turn on/off the power to both the A-905X and the connected audio device.

The shape and capacity of the AC outlet may differ depending on the area of purchase. Make sure that the capacity of other components connected to this unit does not exceed the capacity that is printed on the rear panel.

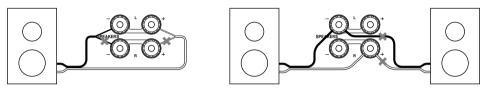


Connecting speaker systems

Connecting left and right speakers

Before connecting

- The load impedance of each speaker must be at least 4 ohms.
- Do not use unnecessarily long or extremely thin speaker cords. Otherwise, the DC resistance of the speaker cords may become too high, lowering the damping factor and causing the sound quality to deteriorate.
- Do not connect the speaker cord to the L and R connectors at the same time and do not connect two or more speakers to the same speaker connectors.



Preparing the speaker cords for connection

- Strip 15 mm from the end of each cord.
- 2 Twist the stripped end of the cord.

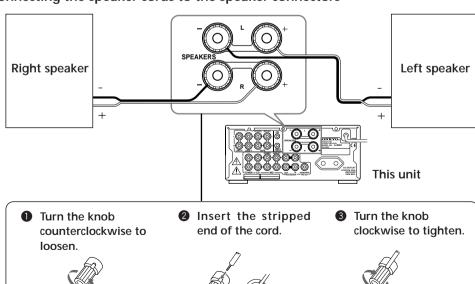


Note

To prevent damage to circuits never short-circuit the positive (+) and negative (-) speaker wires.



Connecting the speaker cords to the speaker connectors

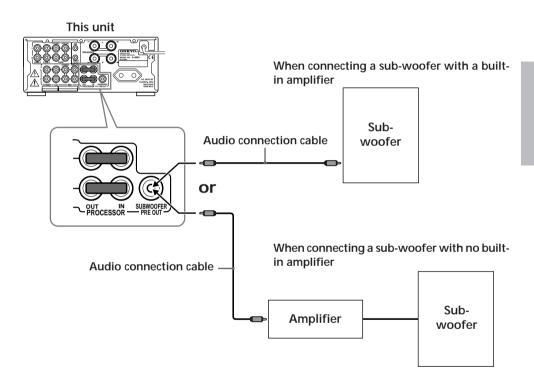


Connecting a sub-woofer

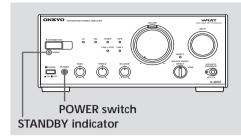
Before connecting

- If your sub-woofer isn't equipped with an amplifier, connect a separate amplifier to the unit first, then connect the sub-woofer to that amplifier.
- The SUBWOOFER PRE OUT connector supplies the left and right mixed monaural signals to the subwoofer.

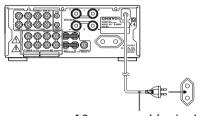
Connections



Connecting the AC power cord (mains lead)



1 Connect the AC power cord (mains lead) to the wall outlet (the mains).



AC power cord (mains lead)

(illustration is 230V models)

2 Press the POWER switch to supply power to the unit.

The STANDBY indicator lights.



Notes

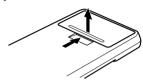
- If the AC power cord (mains lead) is connected to the AC outlet of another component, that component's AC power cord (mains lead) must be connected to the wall outlet (the mains) to supply power to the unit. If the component has a power switch, it must be set to On.
- Leave POWER switch on. If you set POWER switch to off:
 - the remote controller will not operate, and
 - the timer functions will not operate.
- If you do not use the unit for a long time, set POWER to off by pressing POWER switch again.

Preparations

Preparing the remote controller

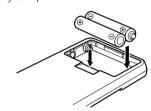
Installing the remote controller batteries

Remove the battery compartment cover by pressing the tab and lifting up the cover.

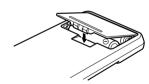


2 Insert two AA (R6 or UM-3)-size batteries into the battery compartment.

Carefully follow the polarity diagram (positive + and negative - symbols) inside the battery compartment.



3 Replace the compartment cover.



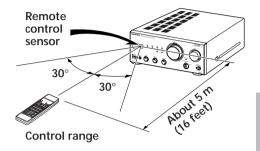
Notes

- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller doesn't operate smoothly, replace both the batteries at the same time.
- The life of the batteries supplied is about six months but this will vary depending on usage.

Using the remote controller

Point the remote controller toward the remote control sensor.

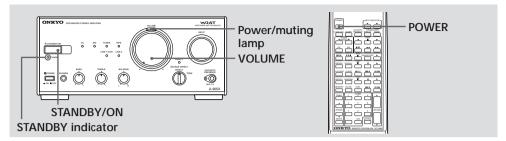
The STANDBY indicator lights up when the unit receives a signal from the remote controller.



Notes

- Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference.
- Do not put any object such as a book on the remote controller. The buttons of the remote controller may be pressed by mistake and drain the batteries.
- Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation.
- If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate.

Operation Turning the unit on

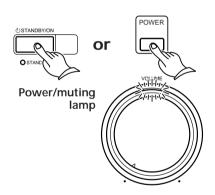


Before turning the unit on

Turn VOLUME control to the leftmost position to avoid damaging the speakers.

Press STANDBY/ON button or POWER button on the remote controller to turn on the unit.

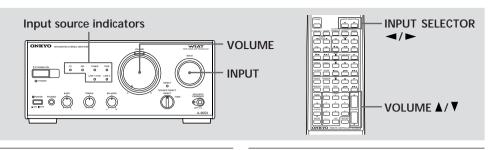
The STANDBY indicator goes off, and the power/muting lamp above the VOLUME control lights.



Note

The unit may cause a power surge on your home circuit when you turn it on. If this interferes with any other devices connected to the same circuit, plug this unit into another outlet on a separate circuit.

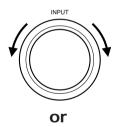
Choosing the required source

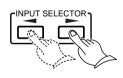


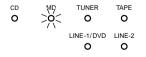
- 1 Turn INPUT selector clockwise or counterclockwise until the input indicator of the source you wish to listen to lights.

The indicators light in the following order:



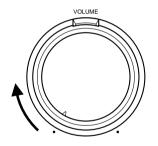




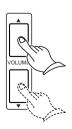


- 2 Start playing the source you selected in step 1.
- 3 Set the volume to appropriate level using the VOLUME control or VOLUME ▲ (up)/ ▼ (down) buttons on the remote controller.

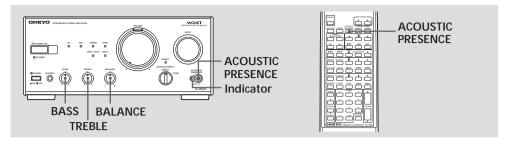
Turn VOLUME control clockwise to increase the volume or counterclockwise to decrease the volume.



or



Adjusting the sound



Adjust left and right speaker balance.

Turn BALANCE control to "L" to lower the volume level of the right speaker, or "R" to lower the volume level of the left speaker.



2 Adjust low frequencies.

Turn BASS control to "+" to reinforce the level of the low frequencies, or "-" to attenuate it.

There is no low frequency control at the center position.



3 Adjust high frequencies.

Turn TREBLE control to "+" to reinforce the level of the high frequencies, or "-" to attenuate it.

There is no high frequency control at the center position.

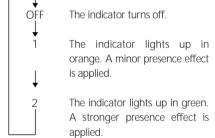


Adjusting the super bass sounds

Acoustic Presence is increases the richness and depth of the sound by enriching the super bass sounds.

Press ACOUSTIC PRESENCE on the unit or remote control.

Each press changes the mode as follows:



The indicator

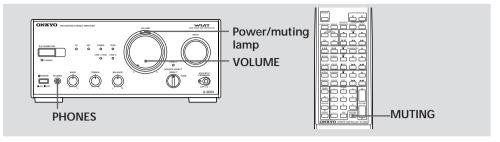


Press SOURCE DIRECT on the unit

You can select input signals using the SOURCE DIRECT knob.

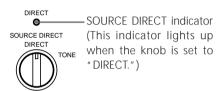
DIRECT: A signal selected via the Input Selector will bypass the BASS, TREBLE, and BAL-ANCE controls, enabling you to enjoy a sound very close to the original.

Muting/Listening through the headphones



TONE:

You can adjust the tonal quality of the signal selected by the Input Selector using the BASS, TREBLE, and BALANCE controls.



Note

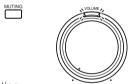
If you set the SOURCE DIRECT knob to "DIRECT", you cannot use the tone control function. However, Acoustic Presence mode is enabled. (You can turn it off if you want.)

Muting the sound

Press MUTING button on the remote controller to mute the sound.

The power/muting lamp above the VOLUME control flashes.

To restore the sound, press MUTING button again.



Tip

During muting:

- if you turn off the unit, and turn it on again, the sound will be restored.

Listening through the headphones

Connect the stereo headphones mini plug to the PHONES jack.

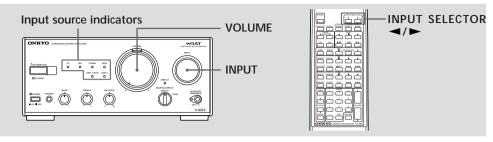
The speakers will reproduce no sound while the headphones are connected.



Tip

You can adjust the sound through the headphones as well as through the speakers. See "Adjusting the sound" on the previous page for operations.

Recording



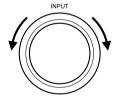
Before recording

Refer to the instruction manuals of the related components for detailed recording operations.

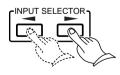
1 Turn INPUT selector clockwise or counterclockwise until the input indicator of the source you wish to record from lights.

The indicators light in the following order:

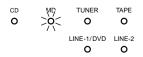




or



e.g. The CD player is selected.



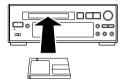
2 Prepare the playing source.

e.g. Insert the CD you want to record from into the CD player.

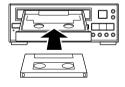


$oldsymbol{3}$ Prepare the recording component.

e.g. 1 Insert an MD into the MD recorder.



e.g. 2 Insert a cassette into the stereo cassette tape deck.



4 Start recording with the component prepared in step 3, then start playing the source prepared in step 2.

Other Information Troubleshooting

If you have any problems with the unit, please check the troubleshooting table below first. For any problems not covered in the table, please consult your nearest ONKYO authorized service center.

Symptom	Cause	Remedy
The unit doesn't turn on.	The AC power cord is not fully inserted into the wall outlet.	Insert the AC power cord (mains lead) plug into the wall outlet (the mains) securely.
Sound is reproduced from neither left or right speaker.	 The wire of the speaker cord is touching the other jacks, connectors, or metal parts. The volume level is turned down to the minimum. The sound is muted with the muting function. The headphones are connected to 	 Check the speaker connections (see page 14). Adjust the volume level (see page 19). Press MUTING button on the remote controller to restore the sound (see page 21). Turn down the volume level first,
	the PHONES jack.	then disconnect the headphones. Then, readjust the volume level.
Sound is reproduced from only one speaker.	The speaker cord is not connected properly or firmly, or is discon- nected.	Check the speaker connections (see page 14).
	The sound is unbalanced between the left and right speakers.	 Adjust the sound balance (see page 20).
No sound is reproduced when the (wake-up) timer operates.	 The volume level is turned down to the minimum. The muting function was on when 	Adjust the volume to the proper level when you set the timer (see page 19). Press MUTING button on the re-
	you set the timer.	mote controller to restore the sound (see page 21) before you set the timer.
The remote control doesn't operate.	 The batteries in the remote controller are dead. The remote controller is out of the control range. 	 Replace the batteries with new ones (see page 17). Operate the remote controller within the control range (see page 17).
	There is some obstruction between the remote controller and the unit.	 Try to operate the remote control- ler from a different angle, or remove the obstruction.

Specifications

Power output

15 watts per channel, min RMS, at 8 ohms, both channels driven 1 kHz, with no more than 0.2% THD

2 × 20 watts at 4 ohms, 1 kHz (DIN) 2 × 15 watts at 8 ohms, 1 kHz (DIN)

Total harmonic distortion

0.2% at rated power

IM distortion

0.2% at rated power

Damping factor

30 at 8 ohms

Frequency and response

15 to 30,000 Hz ± 1 dB

Input sensitivity/impedance

TUNER/CD/LINE: 180 mV/50 kohms TAPE PLAY: 180 mV/50 kohms MD PLAY: 180 mV/50 kohms

Output sensitivity/impedance

TAPE REC: 180 mV/2.2 kohms MD REC: 180 mV/2.2 kohms

Bass control

± 8 dB at 50 Hz

Treble control

± 8 dB at 10,000 Hz

Acoustic Presence

1: +3 dB at 20.5 Hz, +3 dB at 82 Hz 2: +3 dB at 20.5 Hz, +6 dB at 82 Hz

Signal to noise ratio (IHF-A)

CD/TAPE: 100 dB

Muting

-50 dB

General

Power supply

AC 230V, 50Hz AC 120V, 60Hz

Dimensions (W \times H \times D)

 $205 \times 91 \times 302$ mm (Width × Height × Depth) 8-1/16" × 3-9/16" × 11-7/8"

Weight

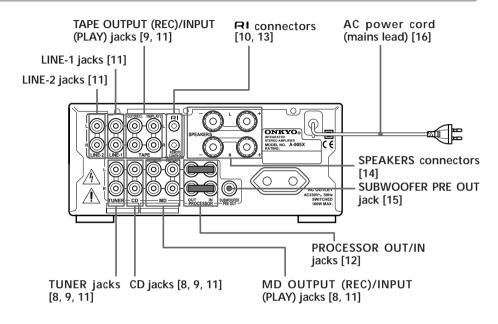
3.4 kg, 7.5 lbs

Specifications and external appearance are subject to change without notice as a result of product improvement.

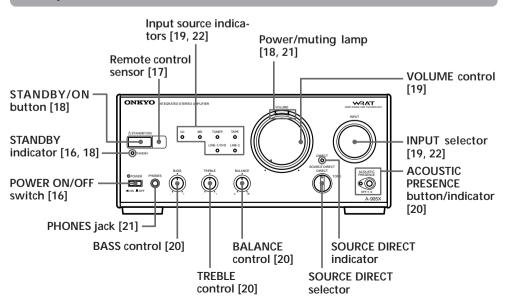
Index to parts and controls

For operational instructions, refer to the page indicated in square parentheses.

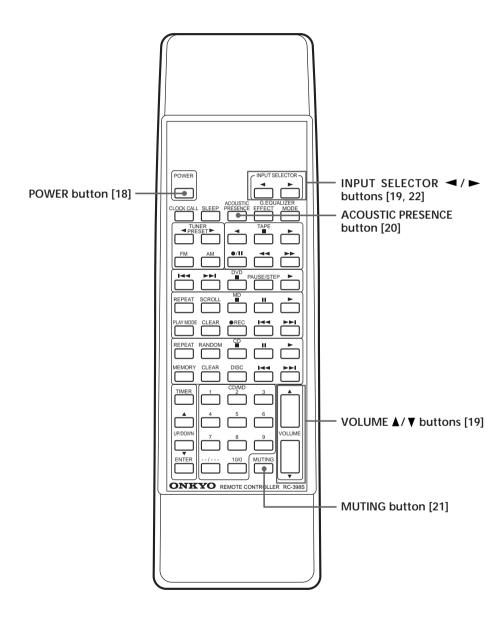
Rear panel



Front panel

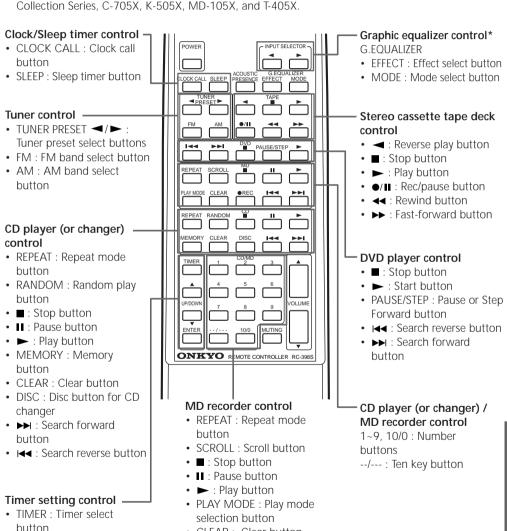


Remote control - The unit operation buttons



Remote control - Operating buttons for other components

- You can control the other RI-connected components with the supplied remote controller.
- The remote controller buttons operate in the same way as the buttons on each component with the same indication.
- For actual operations, please refer to the Instruction Manual for each component.
- Buttons marked with an asterisk "*" cannot be used when the unit is combined with the Separate Collection Series, C-705X, K-505X, MD-105X, and T-405X.



· CLEAR: Clear button

• REC : Recording button

• ▶►I : Search forward button

Idd: Search reverse button.

UP/DOWN ◀/►:

ENTER: Enter button

Setting select buttons

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