

Preparation

Antennas

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the TV set. For connecting the antenna cable to the TV, use commercially available cables.

Connecting Antenna Cable

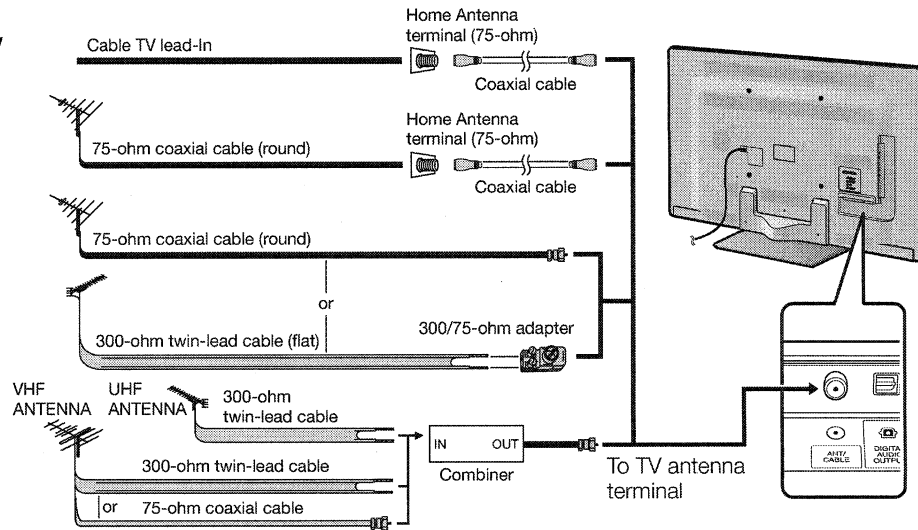
- Connect the antenna cable to the TV using one of the methods in the illustration as shown (①, ②, ③ or ④).

- ① **Cable without a CATV converter**

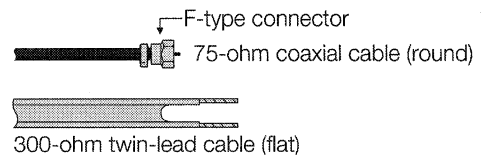
- ② **VHF/UHF antenna**

- ③ **Combination VHF/UHF antenna**

- ④ **Separate VHF/UHF antenna**

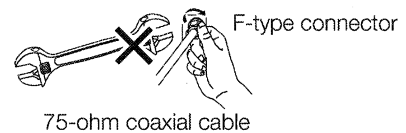


1. A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools.
2. A 300-ohm system is a flat "twin-lead" cable that can be attached to a 75-ohm terminal through a 300/75-ohm adapter.



NOTICE F-type connector should be finger-tightened only.

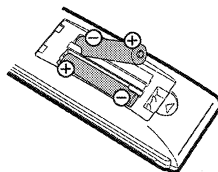
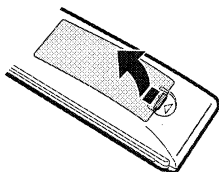
When connecting the RF cable to the TV set, do not tighten F-type connector with tools. If tools are used, it may cause damage to your TV set. (The breaking of internal circuit, etc.)



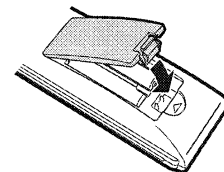
Installing Batteries in the Remote Control Unit

If the remote control fails to operate TV functions, replace the batteries in the remote control unit.

- 1 Open the battery cover.
- 2 Insert two "AAA" size batteries (supplied with the product).
- 3 Close the battery cover.



- Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.

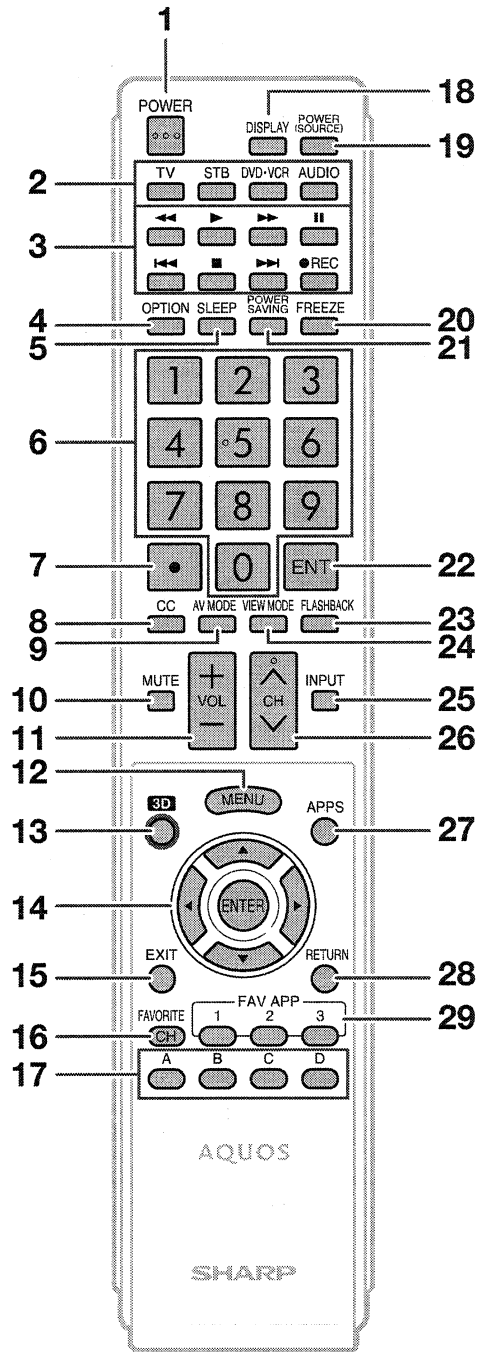


CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are worn out. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove batteries from it.

Remote Control Unit



NOTE

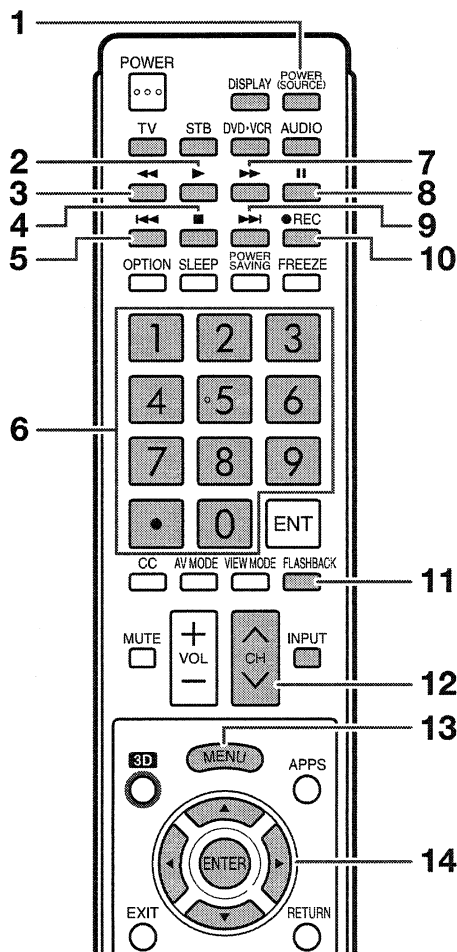
- When using the remote control unit, point it at the TV.

- 1 **POWER:** Switch the TV power on or enter standby. (See page 19.)
- 2 **TV, STB, DVD•VCR, AUDIO:** Switches the remote control for TV, STB, DVD, BD, VCR and AUDIO operation. (See pages 56 to 57 for details.)
 - * To enter the code registration mode, you need to press an appropriate button (**STB, DVD•VCR** or **AUDIO**) and **DISPLAY** at the same time.
- 3 **External equipment operational buttons:** Operate the external equipment.
- 4 **OPTION:** Display the Link Operation Menu screen. This button will function only when AQUOS LINK is used. (See pages 58 to 61 for details.)
- 5 **SLEEP:** Set the sleep timer. (See page 22.)
- 6 **0–9:** Set the channel. (See page 22.)
- 7 **• (DOT):** (See pages 22 and 56.)
- 8 **CC:** Display captions from a closed-caption source. (See page 24.)
- 9 **AV MODE:** Select an audio or video setting. (See page 23.)
- 10 **MUTE:** Mute the sound. (See page 22.)
- 11 **VOL + / –:** Set the volume. (See page 22.)
- 12 **MENU:** Display the menu screen. (See page 26.)
- 13 **3D:** Select between 3D and 2D image viewing. (See pages 43 to 44 for details.)
- 14 **▲/▼/◀/▶, ENTER:** Select a desired item on the screen.
- 15 **EXIT:** Turn off the menu screen.
- 16 **FAVORITE CH:** Set the favorite channels. (See page 36.)
- 17 **A, B, C, D:** Select 4 preset favorite channels in 4 different categories. (See page 36.)
 - While watching, you can toggle the selected channels by pressing **A, B, C** and **D**.
- 18 **DISPLAY:** Display the channel information.
- 19 **POWER (SOURCE):** Turns the power of the external equipment on and off.
- 20 **FREEZE:** Set the still image. Press again to return to normal screen. (See page 22.)
- 21 **POWER SAVING:** Select Power Saving settings. (See page 23.)
- 22 **ENT:** Jumps to a channel after selecting with the **0–9** buttons.
- 23 **FLASHBACK:** Return to the previous channel or external input mode. (See page 22.)
- 24 **VIEW MODE:** Select the screen size. (See pages 25 and 62.)
- 25 **INPUT:** Select a TV input source. (TV, HDMI1, HDMI2, HDMI3, HDMI4, COMPONENT, VIDEO1, VIDEO2, PC IN, Home Network (DLNA), USB) (See pages 14 and 23.)
- 26 **CH▲/▼:** Select the channel. (See page 22.)
- 27 **APPS:** Display the application window. (See page 23.)
- 28 **RETURN:** Return to the previous menu screen.
- 29 **FAV APP 1, 2, 3:** You can assign your favorite applications to these buttons. (See page 36.)

Other Viewing Options

Presetting Remote Control Function

You can operate the connected AV products (AV receiver, cable box, SAT tuner, DTV, VCR, DVD, BD, LD) using the presetting manufacturer function of your remote control unit.



Presetting manufacturer codes

- 1 Press an appropriate button (**STB**, **DVD-VCR** or **AUDIO**) to operate the connected equipment.
- 2 Press an appropriate button (**STB**, **DVD-VCR** or **AUDIO**) and **DISPLAY** at the same time to enter the code registration mode.
- 3 Press **0-9** to enter the manufacturer code. (See page 57.)
 - Preset mode is finished once the LED no longer lights up.
- 4 After registering the code, the LED will stop blinking then turn off after one second. (If you perform an incorrect operation, the LED will blink quickly then turn off.)

Operating the Connected Equipment

To operate the connected equipment, press **STB**, **DVD-VCR** or **AUDIO** to select your device. (STB (cable/satellite set-top box), DVD, BD, VCR or AUDIO.) The remote control unit button will function as follows.

- When you operate VCR, DVD or BD, press **INPUT** to select the terminal connected to your device.
- CABLE and SAT cannot be selected at the same time.

1 POWER (SOURCE)

- Turns the connected equipment power on and off.

2 ▶

- Starts playback. (VCR, DVD, BD)

3 ◀◀

- Rewinds the tape and allows picture search. (VCR)
- Hold down to go in reverse. (DVD, BD)

4 ■

- Stops the tape transport. (VCR)
- Playback stops when pressed. With some DVD/Blu-ray disc players, pressing the button twice may open the disc tray. (DVD, BD)

5 ◀◀◀

- Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter. (DVD, BD)

6 0-9, • (DOT) (STB)

- Press a button (or buttons) that corresponds to the channel that you wish to watch.

7 ▶▶

- Rapidly advances the tape and allows picture search. (VCR)
- Hold down to fast forward. (DVD, BD)

8 ||

- Sets pauses and still pictures. (VCR, DVD, BD)

9 ▶▶▶

- Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter. (DVD, BD)

10 ●REC

- Starts recording. (VCR)

11 FLASHBACK

- Press to switch between the current channel and the channel you were watching immediately before. Some manufacturers do not preset FLASHBACK. (STB)

12 CH^/CH^

- Press **CH^** or **CH^** to tune in to a higher or lower channel. (STB)
- Press to select the channel of the TV tuner on the VCR. (VCR)

13 MENU

- When this button is pressed, the DVD/BD menu will display. (DVD, BD)

14 ▲/▼/◀/▶, ENTER

- **▲/▼/◀/▶**: Press the button to select items on the STB GUIDE screen or STB MENU screen. (STB)
- Press the button to select items on the DVD/BD menu screen. (DVD, BD)
- **ENTER**: Press to activate the selected function. (STB, DVD, BD)

Other Viewing Options

Manufacturer codes

VCR BRAND	REMOTE CONTROL CODE NUMBER
AUDIO DYNAMICS	09
BROCKSONIC	13
CANON	04
CRAIG	12
CURTIS MATHIS	04
DBX	09
EMERSON	10, 13, 14
GE	04
INSTANT REOLYA	04
JC PENNEY	04
JVC	09, 16, 17, 22
KENWOOD	09
MAGNAVOX	04, 05, 06
MAGNIN	12
MEMOREX	04
MONTGOMERY WARD	02
NEC	09
PANASONIC	04, 18, 19, 20, 21
PENTAX	05
PHILCO	04, 05
PHILIPS	04, 05, 06
QUASAR	04
REALISTIC	01, 02
SAMSUNG	11, 12
SHARP	01, 02, 03
SONY	07, 08, 15
SYLVANIA	04, 05, 06
TATUNG	09
TEAC	09
TMK	10
YAMAHA	09

STB BRAND	REMOTE CONTROL CODE NUMBER
ANVISION	04, 05
CABLE STAR	04, 05
EAGLE	05
G.INSTRUMENT	02, 03, 10, 11, 17, 20
GERROLD	17
JERROLD	02, 03, 10, 11, 12, 20, 25-34
MAGNAVOX	04, 05, 08, 12, 15, 16, 18, 19, 22, 23
MOTOROLA	38
OKA SIGMA	07
PANASONIC	14, 21
PHILIPS	04, 05, 08, 13, 15, 16, 18, 19, 22, 23
PIONEER	07
RANDTEK	04, 05
RCA	14, 36*, 37*
S.ATLANTA	01, 09, 24
VIEWSTAR	04, 05, 08, 13, 15, 16, 18, 19, 22, 23
ZENITH	06, 35

NOTE

- Numbers marked with * are SAT codes, all others are STB codes.

AUDIO BRAND	REMOTE CONTROL CODE NUMBER
SHARP	01
SHARP (SOUND BAR)	02

DVD/BD/LD BRAND	REMOTE CONTROL CODE NUMBER
DENON	24
JVC	31
KENWOOD	36
MAGNAVOX	26
MARANTZ	26
MITSUBISHI	28
PANASONIC	24, 37
PHILIPS	26, 38
PIONEER	30, 33, 35
PROSCAN	25
RCA	25, 39
SAMSUNG	29, 34
SHARP	23, 32, 41, 42
SONY	27, 40
TOSHIBA	26
YAMAHA	24
ZENITH	26

- Depending on the brand, the codes of some BD players may not be supported.