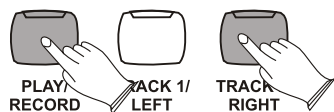


Delete The Recording

Hold down the [TRACK 1/LEFT] or [TRACK2/RIGHT] button for 3 seconds until the LCD show: DELETE TRACK1? or DELETE TRACK 2?, then press the [TRACK 1/LEFT] or [TRACK2/RIGHT] button to delete the recording.



```
**** DELETE ****
*** TRACK1? ***
*** TRACK2? ***
```

Play along Songs

There are 55 songs built into this Piano for your musical enjoyment. These songs have separate left and right-hand parts that can be turned on and off as required so you can practice the corresponding part on the piano.

Selecting A Song

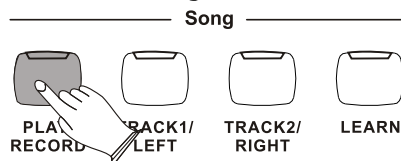
Press the [LEARN] button or press the [TRACK1/LEFT] and [TRACK2/RIGHT] button at the same time. The song number will appear on the LCD display. Both Right and Left indicator are OFF.



Use the [TRANPOSE▲]/[TRANPOSE▼] / [TEMPO▲]/[TEMPO▼] button to select a song. Press the [PLAY/RECORD] button to start the song.

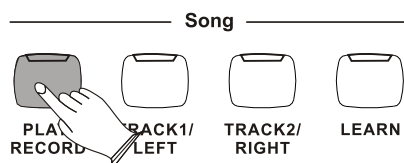
Listening To The Entire Song

- 1). With the play along song mode engaged, press the [PLAY/RECORD] button to hear both hand parts playing the entire song.
- 2). Press the [PLAY/RECORD] button again to stop. Otherwise, playback will stop automatically at the end of the song.



Practicing The Right Hand Of The Selected Song

- 1). With the play along song mode engaged, press the [RIGHT/TRACK2] button to mute the right hand part. The [RIGHT/TRACK2] button indicator lights up.



2). Press the [PLAY/RECORD] button. Its indicator lights up and you will hear the metronome “count in” the song. You will then hear the left-hand part.

NOTE

The default status of the metronome is ON. Press the METRONOME button if you want to disable the metronome sound in the right / Left hand mode.

3). Play the right-hand part of your selected song while the left-hand part plays.

4). Press the [PLAY/RECORD] button again to stop. Otherwise, playback will stop automatically at the end of the song.

Practicing The Left Hand Of The Selected Song

Follow steps 1-4 listed above, substituting the LEFT button whenever RIGHT button is mentioned. You will hear the right-hand part of your selected song. Play the left-hand part of your selected song while the right-hand part plays.

Practicing The Both Hand Of The Selected Song

1). While the play along song mode is engaged.

2). Press the [LEFT/TRACK1] button first, then the [RIGHT/TRACK2] button.

3). Press the [PLAY/RECORD] button. Its indicator lights up and you will hear the metronome “count in” the song.

4). Play the left-hand and right-hand parts of your selected song. The metronome will continue to play to assist you in keeping time.

5). Press the [PLAY/RECORD] button again to stop. Otherwise, playback will stop automatically at the end of the song.

Exit Learning Mode

Press the [LEARN] button or press the [TRACK1/LEFT] and [TRACK2/RIGHT] button at the same time again to exit Learning Mode.

MIDI Functions

If you are an advanced MIDI user, this section will help you to access the MIDI controller capabilities of the piano. If you already know that you need this specialized functionality, then this section is for you. However, this information is not necessary in order to enjoy playing the piano. A good rule to keep in mind is: If you don't know what a function described in this section is, then you probably don't need it.

MIDI, or Musical Instrument Digital Interface, is the way most electronic keyboards communicate with computers and with each other. Through a series of MIDI messages a computer or keyboard can tell an instrument what note to play, how loud to play it, when to stop playing it, and a host of other information.

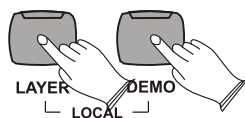
The piano can send MIDI information to a computer or another MIDI-capable instrument, via its MIDI or USB output. This enables the piano to act as a controller keyboard for another instrument, MIDI sequencer or MIDI enabled Digital Audio Workstation program.

Local On/Off

Turning the Local On/Off function to Off will disconnect the keyboard from the internal sound engine of the piano. This means you can use the piano as a MIDI controller to control other MIDI devices (or virtual instrument software running on your computer) without playing the internal sounds of the piano. You may also find other occasions (such as when you are using MIDI sequencing software on your computer) where it is useful to turn Local off.

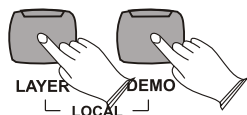
Turn Local On/Off to Off

Press the [LAYER] button and [DEMO] button at the same time. The LCD show:



Turn Local On/Off to On

Press the [LAYER] button and [DEMO] button at the same time again. The LCD show:



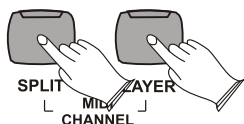
MIDI Channel

This function allows you to use the Data Control knob (or Transpose Up/Down buttons) to increase or decrease the Main MIDI Transmit Channel. The Main MIDI Transmit Channel is the MIDI channel used for the Main Voice.

Change the Main MIDI Transmit Channel

Press the [SPLIT] button and [LAYER] button simultaneously to enter MIDI Channel Edit Mode.

The display will begin flashing the current Main MIDI Transmit Channel:



Use the [DATA CONTROL] knob or the [TRANPOSE] Up or Down buttons to change the Main MIDI Transmit Channel.

The new Main MIDI Transmit Channel will be selected and shown in the display.



If the keyboard is being played at the time of the MIDI Channel change, all new notes played will be sent on the new MIDI Channel. All held notes will play their note off messages on the MIDI Channel on which they were played. While in MIDI Channel Edit Mode, pressing the Transpose up and down buttons together will reset the Main MIDI Transmit Channel function back to its default value of Channel 1.

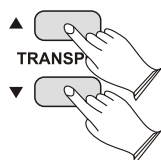
Data Control Assign

Though it controls Voice Volume by default, the Data Control knob can be assigned to send control messages for a variety of functions, including Octave, Master Tuning, MIDI Program Change, Tempo, and any of the standard MIDI CC (Control Change)

messages. A table containing all the possible Data Control knob assignments can be found in Appendix C -Data Control Assignments and MIDI CC List.

Change the Assignment of the Data Control Knob

Press the [TRANPOSE] Down and Tempo Down buttons at the same time.



Turn the [DATA CONTROL] knob to scroll through the possible assignments until you see the desired assignment on the LCD.



After approximately three seconds, the keyboard will go back into Performance Mode, with your new Data Control knob assignment. Please note that the default assignment for the DataControl knob is 007-VolumC.

Appendix

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	1-16	1-16	
	Changed	1-16	1-16	
Mode	Default	Mode 3	Mode 3	
	Messages	O	X	
	Altered	*****	X	
Note Number	True voice	0~127	0~127	

Velocity	ON	O	O	
Note	OFF	O	O	
After Touch	Key's	X	X	
	Touch Channel	X	X	
Pitch Bend		X	X	
Control Change		0-127	0,1,5,6,7,10,11, 32,64,65,66,67, 80,81,91,93,100, 101,121	
Program Change	True #	0-127 *****	0-15	*16 sounds only PGM=0-15
System Exclusive		O*	O*	*The controller will recognize and respond to GM Device inquiries. Master Tune supported. Master Volume supported.
System Common	Song Position Pointer	X	X	
	Song Select	X	X	
	Tune Request	X	X	
System Real Time	Clock	X	X	
	Commands	X	X	
Aux Messages	All Sounds Off*	O	O	
	Reset All Controllers	O	O	
	Local ON/OFF*	O	O	
	ALL Notes OFF	O	O	
	Active Sensing	X	O	
	System Reset	X	O	
Notes				

Mode1:OMNI ON,POLY Mode2:OMNI ON,MONO O: Yes
 Mode3:OMNI OFF,POLY Mode4:OMNI OFF,MONO X: NO

Data Control Assignments and MIDI CC List

CC no.	Controller Name	Display Name	Name(3 char)	Default Value
	Octave	Octave	Oct	0
	Transpose	Transpose	Tra	0
	Voice Volume	Voice Vol	Vol	127
	Layer Volume	Layer Vol	Vol	100
	Split Volume	Split Vol	Vol	127
	Metronome Volume	Metro Vol	Vol	100
	Time Signature	Time Sig	TSg	4/4
	Program Change	PGM Change	PGM	0
	Bank Change LSB	Bank LSB	LSB	0
	Bank Change MSB	Bank MSB	MSB	0
	MIDI Transmit Channel	MIDI Chan	Cha	1
	Voice Select	Voice Sel	Sel	0
	Master Tune	Master Tune	Tun	64
	Tempo	Tempo	Tem	120
0	0 Bank Select (coarse)	000-Bank C	CC	0
1	1 Modulation Wheel (coarse)	001-Mod C	CC	0
2	2 Breath controller (coarse)	002-BrethC	CC	0
3		3	CC	0
4	4 Foot Pedal (coarse)	004-FootPC	CC	0
5	5 Portamento Time (coarse)	005-PortaC	CC	0
6	6 Data Entry (coarse)	006-DataEC	CC	0
7	7 Volume (coarse)	007-VolumC	Vol	127
8	8 Balance (coarse)	008-BalanC	CC	0
9		9	CC	0
10	10 Pan position (coarse)	010-Pan C	Pan	0
11	11 Expression (coarse)	011-Expr C	Exp	0
12	12 Effect Control 1 (coarse)	012-Eff1 C	CC	0
13	13 Effect Control 2 (coarse)	013-Eff2 C	CC	0
14		14	CC	0
15		15	CC	0
16	16 General Purpose Slider 1	016-GenPr1	CC	0
17	17 General Purpose Slider 2	017-GenPr2	CC	0
18	18 General Purpose Slider 3	018-GenPr3	CC	0
19	19 General Purpose Slider 4	019-GenPr4	CC	0
20-31		020, 021, 022 ... 031	CC	0
32	32 Bank Select (fine)	032-Bank F	CC	0
33	33 Modulation Wheel (fine)	033-Mod F	CC	0
34	34 Breath controller (fine)	034-BrethF	CC	0
35		35	CC	0
36	36 Foot Pedal (fine)	036-FootPF	CC	0
37	37 Portamento Time (fine)	037-PortaF	CC	0
38	38 Data Entry (fine)	038-DataEF	CC	0
39	39 Volume (fine)	039-VolumF	CC	127
40	40 Balance (fine)	040-BalanF	CC	0
41		41	CC	0

CC no.	Controller Name	Display Name	Name(3 char)	Default Value
42	42 Pan position (fine)	042-Pan F	CC	0
43	43 Expression (fine)	043-Expr F	CC	127
44	44 Effect Control 1 (fine)	044-Eff1 F	CC	0
45	45 Effect Control 2 (fine)	045-Eff2 F	CC	0
46-63		046, 047, 048 ... 063	CC	0
64	64 Hold Pedal (on/off)	064-Sustai	CC	0
65	65 Portamento (on/off)	065-Portam	CC	0
66	66 Sostenuto Pedal (on/off)	066-Sosten	CC	0
67	67 Soft Pedal (on/off)	067-SoftPd	CC	0
68	68 Legato Pedal (on/off)	068-Legato	CC	0
69	69 Hold 2 Pedal (on/off)	069-HoldP2	CC	0
70	70 Sound Variation	070-Var	CC	64
71	71 Sound Timbre	071-Timbre	CC	64
72	72 Sound Release Time	072-Releas	CC	64
73	73 Sound Attack Time	073-Attack	CC	64
74	74 Sound Brightness	074-Bright	CC	64
75	75 Sound Control 6	075-CTRL 6	CC	0
76	76 Sound Control 7	076-CTRL 7	CC	0
77	77 Sound Control 8	077-CTRL 8	CC	0
78	78 Sound Control 9	078-CTRL 9	CC	0
79	79 Sound Control 10	079-CTRL10	CC	0
80	80 General Purpose Button 1 (on/off)	080-GenBt1	CC	0
81	81 General Purpose Button 2 (on/off)	081-GenBt2	CC	4
82	82 General Purpose Button 3 (on/off)	082-GenBt3	CC	2
83	83 General Purpose Button 4 (on/off)	083-GenBt4	CC	0
84-90		084, 085, 086 ... 090	CC	0
91	91 Effects Level	091-FXLevl	CC	40
92	92 Tremolo Level	092-Tremel	CC	0
93	93 Chorus Level	093-Chorus	CC	0
94	94 Celeste Level	094-Celest	CC	0
95	95 Phaser Level	095-Phaser	CC	0
96	96 Data Button increment	096-DatInc	CC	0
97	97 Data Button decrement	097-DatDec	CC	0
98	98 Non-registered Parameter (fine)	098-NRPN F	CC	127
99	99 Non-registered Parameter (coarse)	099-NRPN C	CC	127
100	100 Registered Parameter (fine)	100-RPN F	CC	127
101	101 Registered Parameter (coarse)	101-RPN C	CC	127
102-119		102, 103, 104 ... 119	CC	0
120	120 All Sound Off	120-SndOff	CC	0
121	121 All Controllers Off	121-CTLOff	CC	0
122	122 Local Keyboard (on/off)	122-Local	CC	0
123	123 All Notes Off	123-NoteOf	CC	0
124	124 Omni Mode Off	124-OmniOf	CC	0
125	125 Omni Mode On	125-OmniOn	CC	0
126	126 Mono Operation	126-Mono	CC	0
127	127 Poly Operation	127-Poly	CC	0

Defaults

Default Settings

The table below shows the piano factory default settings and whether or not user changes to these settings are retained after a power-cycle (turning the device off and on):

Parameter	Factory Default	Retained on Power-Down
Program Number & Voice Selected	0	No
Voice Button Bank Selection	Off	No
Bank MSB Number	0	No
Bank LSB Number	0	No
Transmit Channel	00(channel 1)	No
Octave shift	0	No
Transpose	0	No
Local	On	No
Data Control Assignment	Data = cc:007 Volume	Yes
Data Control Value (per assignment and only CC - not including PGM or Bank LSB/MSB)	Value of cc:007	Yes
Velocity Curve Selected	"NORMAL"	Yes
Voice Volume	100	Yes
Metronome Volume	127	Yes
Master Tune	0	Yes
Tempo	120	Yes
Reverb On/Off	Reverb On	Yes - store for each sound
Reverb Depth	Defaults for each sound	Yes - store for each sound
Reverb Type	Defaults for each sound	Yes - store for each sound
Chorus On/Off	Chorus On	Yes - store for each sound
Chorus Depth	Defaults for each sound	Yes - store for each sound
Chorus Type	Defaults for each sound	Yes - store for each sound
Split Mode On/Off	Off	No
Split Point	Eb3	Yes
Split Mode Voice	8 - Upright Bass	Yes
Split Volume	127	Yes
Layer Mode On/Off	Off	No
Layer Mode Voice	7 - Strings	Yes
Layer Volume	100	Yes

At power-on, the following MIDI data will be sent to the sound engine, the USB MIDI and the MIDI Out:

1. Bank Change MSB=0, LSB=0, PGM=0 - Set sound engine to piano voice
2. Reverb default value
3. Chorus default value

Reverb and Chorus Defaults

No.	Sound Name	Reverb On/Off	Reverb Depth	Reverb Type	Chorus On/Off	Chorus Depth	Chorus Type
0	Grand Piano	Off	40	4	Off	45	2
1	Bright Piano	Off	40	0	Off	45	3
2	E. Piano 1	Off	35	1	On	45	2
3	E. Piano 2	Off	38	1	Off	45	3
4	Vibes	Off	35	4	Off	45	2
5	FM EP	Off	50	4	On	45	2
6	Rock Organ	Off	48	1	Off	45	1
7	Church Organ	Off	96	5	Off	45	3
8	Harpsichord	Off	50	0	Off	45	2
9	Clav	Off	35	1	On	45	4
10	Strings	Off	54	4	Off	45	2
11	Choir	Off	127	4	Off	45	1
12	Fantasia	Off	64	4	Off	45	1
13	Warm Pad	Off	40	4	Off	45	2
14	Upright Bass	Off	35	6	Off	45	3
15	Electric Bass	Off	35	0	On	45	1
MIDI Channel 10	n/a (Metronome)	Off			Off		

Piano Reset

As soon as the Piano Reset function is activated (by pressing the Reverb and Chorus buttons simultaneously), the device will perform the following functions:

1. Turn Local On
2. Send “All Notes Off” Command on MIDI Channel 1 - external and to the internal sound engine
3. Send “Reset All Controllers” Command on MIDI channel 1 - external and to the internal sound engine
4. Assign Data Control to MIDI Controller 7 (Volume)
5. Set Volume levels for Main Voice, Split Voice and Layer Voice to defaults
6. Set Pan to 64 for Main Voice, Split Voice and Layer Voice
7. Turn off Layer Mode and Split Mode
8. Set Global Transmit Channel to 1
9. Set Transpose and Octave Shift both back to zero
10. Send a Bank Change MSB = 0 and Bank Change LSB = 0 on channel 1
11. Send a Program Change = 0 on channel 1
12. Send the Reverb Depth back to the default value for the Piano Voice
13. Send the Chorus Depth back to the default value for the Piano Voice
14. Send the current status of the Sustain Pedal on channel 1

The device will remain in Performance Mode during the Piano Reset function. The LCD display will show “Piano Reset” for 1 second and then return to the default display.

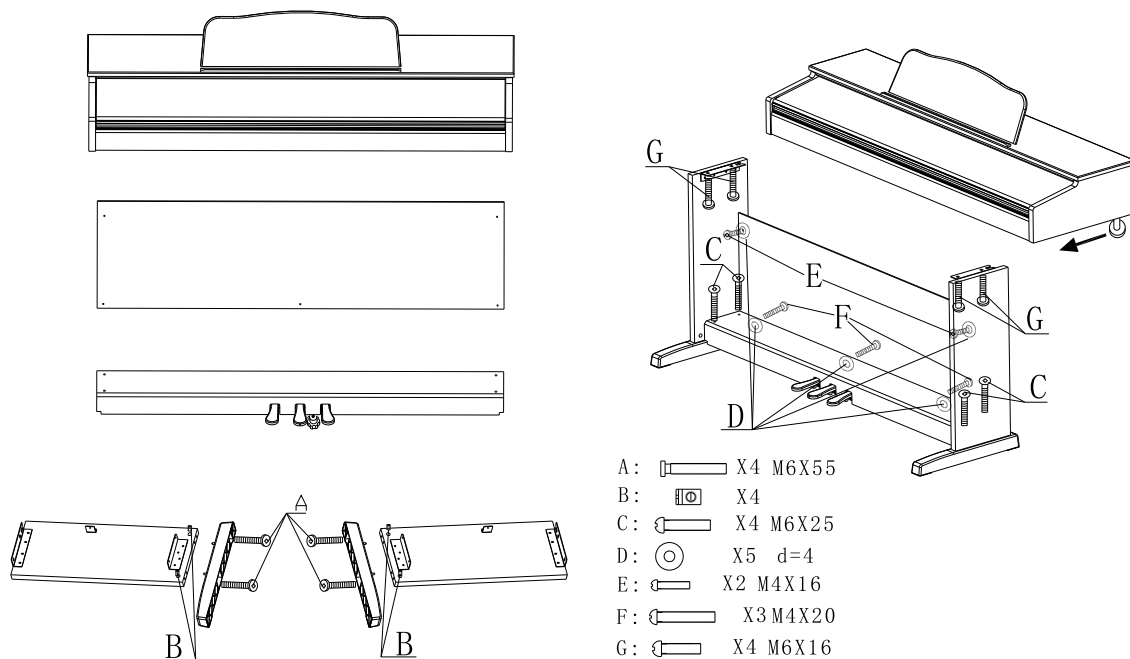
Troubleshooting Hints

•When the instrument is turned on or off, a Popping sound is temporarily produced.	This is normal and indicates that the instrument is receiving electrical power.
•When using a mobile phone, noise is produced. Using a mobile phone in close proximity to the instrument may produce interference.	To prevent this, turn off the mobile phone or use it further away from the instrument.
•Not all of the voices seem to sound, or the sound seems to cut off.	The instrument is polyphonic up to a maximum of 32 notes — including Dual voice, Split Voice, auto accompaniment, song, and Metronome. Notes exceeding this limit will not sound.
•The Auto Accompaniment does not sound properly.	Make sure that the Auto Accomp Volume Function is set to an appropriate level. Is the Split Point set to an appropriate key for the chords you are playing? Set the Split Point to an appropriate position on the keyboard. Is the chord indicator showing in the LCD display? If it is not showing, press the CHORD button so that it does show.
•No sound produced by the keyboard, but the lights and screen work.	Check that the master volume control is not set to minimum. Check that nothing is plugged into the headphone socket.
•The sound of the voice changes from note to note.	This is normal. The digital tone generation uses multiple recordings (samples) of an instrument across the range of the keyboard; The actual sound of the voice may be slightly different from note to note.
•The volume is too soft. •The sound quality is poor. •The rhythm stops unexpectedly or will not play. •The recorded data of the song, etc. does not play correctly. •The LCD display suddenly goes dark, and all panel settings are reset.	The batteries are low or dead. Replace all six batteries with completely new ones, or use the supplied AC adaptor. If you have lost or damaged your AC adaptor, please contact your nearest store for a correct replacement adaptor. An incorrect AC mains adaptor which is not rated sufficiently can cause malfunction or damage.
•To completely restore all settings as per factory settings	Perform a factory reset, Please refer to content in this owner's manual. All of the user setting will be erased and the default factory settings will be applied to the instrument.
•Power suddenly and unexpectedly turns off, after a period of not touching the keys.	This is normal and the Auto Power Off function may have been activated. If you need to disable the Auto Power Off function, please see how to do this in the owner's manual.
•The sustain pedal or footswitch seems to produce the opposite effect. Example pressing the footswitch deactivates the sustain, and releasing the footswitch triggers the sustain.	The polarity of the footswitch needs to be correctly detected. Make sure the jack plug for the footswitch is connected. Switch the instrument on whilst not touching the pedal.

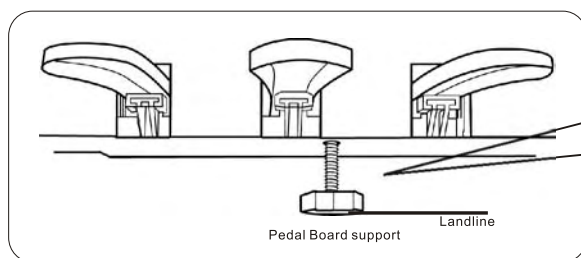
Specifications

Keyboard	88 Keys With Touch Sensitivity
Display	LCD Display
Voice	16, 8 Direct Selection Buttons
Polyphony	64
Voice Control	Layer, Touch, Transpose, Split, Metro, Octave
Keyboard Control	Split, Duet, 3 Touch Sensitivity and Fixed Touch Response, Layer
Pedals	Soft, Sostenuto, Sustain
Effect	Bass, Treble, 8 Reverb Types and Reverb Level 8 Chorus Types and Chorus Level
Demo Song	16 demo + 55 learning songs
Coach Feature	Left/Right part On/Off
Song Recording	2 tracks of record and playback without USB DISK Songs and Registration Files can be saved to USB DISK
Midi	Transmit Settings, Local Control, USB MIDI
Connectors	Pedal1, Pedal2, Line In, Line Out, 2 Phones, USB Socket,
Dimensions(W x D x H)	1490mm×520mm×415mm
Supplied Accessories	Owner's Manual

Assembly Instructions



Turn the adjustable Pedal Board support, until it is in firm contact with the floor.



Before moving the piano to a new location, always remember to raise the level of the Pedal Board support so that it is not touching the floor. Once the piano is in place, you can adjust it so it is in firm contact with the floor again.

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

