

# HCD-EC55/EC77/GX99

## SERVICE MANUAL

Ver. 1.2 2007.07



Photo : HCD-EC55 (E model)

- HCD-EC55 (US and Canadian models) and HCD-EC77/GX99 (US and Canadian models) are the Amplifier, CD player and Tuner section in MHC-EC55/EC77/GX99.
- HCD-EC55 (Except US and Canadian models) and HCD-EC77/GX99 (Except US and Canadian models) are the Amplifier, CD player, Tape Deck and Tuner section in MHC-EC55/EC77/GX99.

*US Model  
Canadian Model*

*HCD-EC55/EC77/GX99*

*AEP Model*

*HCD-EC55/EC77*

*UK Model*

*HCD-EC55*

*E Model*

*Australian Model*

*HCD-EC55/EC77*

CD Section	Model Name Using Similar Mechanism	NEW
	Base Unit Name	BU-K6SD90-WCD
TAPE Section	Optical Pick-up Name	KSM-213DCP
	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CS-21SC-901TP

### SPECIFICATIONS

#### Main unit

**AUDIO POWER SPECIFICATIONS**  
**POWER OUTPUT AND TOTAL HARMONIC DISTORTION**  
(HCD-EC55/77, HCD-EC77 The United States model only)

Low channel

With 8 ohm loads, both channels driven, from 120 ~ 16,000 Hz, 50 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.

High channel

With 8 ohm loads, both channels driven, from 2,000 ~ 15,000 Hz, 50 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.

**Other models**

**AUDIO POWER SPECIFICATIONS**  
**POWER OUTPUT AND TOTAL HARMONIC DISTORTION**  
(HCD-EC55 The United States model only)

With 8 ohm loads, both channels driven, from 120 ~ 16,000 Hz, 45 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.

#### Amplifier section

##### HCD-GX99

Power speaker

RMS output power (continuous)

Low channel

45 W + 45 W (per channel at 8 Ω, 1 kHz, 1% THD)

High channel

45 W + 45 W (per channel at 8 Ω, 1 kHz, 1% THD)

Subwoofer

RMS output power (continuous)

150 W (at 8 Ω, 80 Hz, 10% THD)

##### HCD-EC77

North American model

RMS output power (continuous)

Low channel

45 W + 45 W (per channel at 8 Ω, 1 kHz, 1% THD)

High channel

45 W + 45 W (per channel at 8 Ω, 1 kHz, 1% THD)

#### European and Russian models

Power output (rated)

Low channel

45 W + 45 W (at 8 Ω, 1 kHz, 1% THD)

High channel

45 W + 45 W (at 8 Ω, 1 kHz, 1% THD)

RMS output power (continuous)

Low channel

45 W + 45 W (per channel at 8 Ω, 1 kHz, 10% THD)

High channel

45 W + 45 W (per channel at 8 Ω, 1 kHz, 10% THD)

Other models

The following are measured at AC 120, 127, 220, 240 V, 50/60 Hz

Power output (rated)

Low channel

50 W + 50 W (at 8 Ω, 1 kHz, 1% THD)

High channel

50 W + 50 W (at 8 Ω, 1 kHz, 1% THD)

RMS output power (continuous)

Low channel

50 W + 50 W (per channel at 8 Ω, 1 kHz, 10% THD)

High channel

50 W + 50 W (per channel at 8 Ω, 1 kHz, 10% THD)

Other models

North American model

RMS output power (continuous)

45 W + 45 W (per channel at 8 Ω, 1 kHz, 10% THD)

European and Russian models

Power output (rated) 45 W + 45 W (at 8 Ω, 1 kHz, 1% THD)

RMS output power (continuous)

45 W + 45 W (per channel at 8 Ω, 1 kHz, 10% THD)

Other models

The following are measured at AC 120, 127, 220, 240 V, 50/60 Hz

Power output (rated) 45 W + 45 W (at 8 Ω, 1 kHz, 1% THD)

RMS output power (continuous)

45 W + 45 W (per channel at 8 Ω, 1 kHz, 10% THD)

#### Inputs

AUDIO IN (stereo mini jack): Sensitivity 800 mV  
Impedance 47 kΩ/10kΩ

#### Outputs

SPEAKERS (stereo mini jack): Accepts headphones with an impedance of 8 Ω or more

AMPLIFIER: Accepts impedance of 8 to 8 Ω  
SUBWOOFER (LFE OUT) (HCD-GX99 only)

#### CD player section

System: Compact disc and digital audio system

Laser: Semiconductor laser (GaAs) ~ 820 nm

Rotational duration: continuous

Frequency response: 20 Hz ~ 20 kHz

Signal-to-noise ratio: More than 90 dB

Dynamic range: More than 80 dB

**Tape deck section (Except for North American model)**

Recording system: 4-track, 2-channel, stereo

#### Tuner section

FM tuner, FM/AM superheterodyne tuner

Antenna:

FM: Loop antenna

AM: Loop antenna

FM tuner amplifier:

Tuning range

North American model: 87.5 ~ 108.0 MHz (100 MHz step)

Other models: 87.5 ~ 108.0 MHz (100 MHz step)

Intermediate frequency: 10.7 MHz

— Continued on next page —

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**Sony Corporation**  
Personal Audio Division  
Published by Sony Techno Create Corporation

COMPACT DISC DECK RECEIVER

**SONY**

# Sony Hcd Ec55 Manual

**Sonī Kabushiki Kaisha**



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## **Table of Contents Sony Hcd Ec55 Manual**

1. Understanding the eBook Sony Hcd Ec55 Manual
  - The Rise of Digital Reading Sony Hcd Ec55 Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Sony Hcd Ec55 Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sony Hcd Ec55 Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sony Hcd Ec55 Manual
  - Personalized Recommendations
  - Sony Hcd Ec55 Manual User Reviews and Ratings
  - Sony Hcd Ec55 Manual and Bestseller Lists
5. Accessing Sony Hcd Ec55 Manual Free and Paid eBooks
  - Sony Hcd Ec55 Manual Public Domain eBooks
  - Sony Hcd Ec55 Manual eBook Subscription Services
  - Sony Hcd Ec55 Manual Budget-Friendly Options
6. Navigating Sony Hcd Ec55 Manual eBook Formats

- ePub, PDF, MOBI, and More
- Sony Hcd Ec55 Manual Compatibility with Devices
- Sony Hcd Ec55 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sony Hcd Ec55 Manual
  - Highlighting and Note-Taking Sony Hcd Ec55 Manual
  - Interactive Elements Sony Hcd Ec55 Manual
- 8. Staying Engaged with Sony Hcd Ec55 Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sony Hcd Ec55 Manual
- 9. Balancing eBooks and Physical Books Sony Hcd Ec55 Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sony Hcd Ec55 Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sony Hcd Ec55 Manual
  - Setting Reading Goals Sony Hcd Ec55 Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sony Hcd Ec55 Manual
  - Fact-Checking eBook Content of Sony Hcd Ec55 Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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algorithm to compute the output error and weights create the dsp blocklmsfilter object and set its properties call the object with arguments as if it were a function

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web you can either specify a step size using the input port step size or enter a value in the block parameters block lms filter dialog box use the leakage factor 0 to 1 parameter to specify the leakage factor  $0 \leq \mu \leq 1$  in the leaky lms algorithm shown below

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web noise cancellation using sign data lms algorithm open live script when the amount of computation required to derive an adaptive filter drives your development process the sign data variant of the lms sdlms algorithm might be a very good choice as demonstrated in this example

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web description the lms filter block can implement an adaptive fir filter by using five different algorithms the block estimates the filter weights or coefficients needed to minimize the error  $e_n$  between the output signal  $y_n$  and the desired signal  $d_n$  the output is the filtered input signal which is the estimate of the desired signal

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