

HCD-FR1/FR8/FR9

SERVICE MANUAL

Ver. 1.5 2004.12

US Model
HCD-FR1/FR8/FR9
Canadian Model
HCD-FR1



PHOTO: HCD-FR1

HCD-FR1/FR8/FR9 are the amplifier, DVD/SACD and tuner section in DAV-FR1/FR8/FR9.

Model Name Using Similar Mechanism	NEW
Mechanism Type	CDM60-DVB115
Optical Pick-up Name	DBU-1

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 4 ohm loads, both channels driven, from 20 – 20,000 Hz, rated 75 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion. (from 350 milli watts to rated output)

Amplifier section (HCD-FR1)

Surround mode (reference)
music power output
Front: 110 W + 110 W
(with SS-TS20)
Center*: 110 W
(with SS-CT44)
Surround*: 110 W + 110 W
(with SS-TS20)
Subwoofer*: 100 W x 2
(with SS-WS12)

Amplifier section (HCD-FR8)

Surround mode (reference)
music power output
Front: 114 W + 114 W
(with SS-TS21)
Center*: 114 W
(with SS-CT33)
Surround*: 114 W + 114 W
(with SS-TS20)
Subwoofer*: 112 W x 2
(with SS-WS12)

Amplifier section (HCD-FR9)

Surround mode (reference)
music power output
Front: 114 W + 114 W
(with SS-TS21)
Center*: 114 W
(with SS-CT33)

* Depending on the sound field settings and the source, there may be no sound output.

Inputs

VIDEO-SAT:
Sensitivity: 250 mV/
450 mV
Impedance: 50 kilohms
SURROUND BACK
Voltage: 2V
Impedance: 1 kilohms
Accepts low- and high-impedance headphones.

Output

Phases

Super Audio CD/DVD system

Laser
Semiconductor laser
(Super Audio CD/DVD: λ = 650 nm)
(CD: λ = 780 nm)
Rotation duration:
continuous

Signal format system

Frequency response (at 2 CH STEREO mode)
DVD (PCM): 2 Hz to 22 kHz (± 1.0 dB)
CD: 2 Hz to 20 kHz (± 1.0 dB)
Less than 0.05 %

Harmonic distortion

Tuner section

System

PLL quartz-locked digital synthesizer system

FM tuner section

Tuning range

87.5 – 108.0 MHz
(100 kHz step)

Antenna (serial)

Antenna (serial) terminals

FM wire antenna (serial)
75 ohms, unbalanced

Intermediate frequency

10.7 MHz

AM tuner section

Tuning range

531 – 1,710 kHz (with the interval set at 9 kHz)
530 – 1,710 kHz (with the interval set at 10 kHz)

Antenna (serial)

Intermediate frequency

450 kHz

Video section

Outputs

Video: 1 V_{p-p} 75 ohms
S VIDEO:
Y: 1 V_{p-p} 75 ohms
C: 0.286 V_{p-p} 75 ohms
COMPOSITE:
Y: 1 V_{p-p} 75 ohms
Pb/Cb, Pr/Cr: 0.65 V_{p-p} 75 ohms

General

Power requirements

120 V AC, 60 Hz

Power consumption

150 W

Dimensions (approx.)

430 x 70 x 398 mm
(17 x 2 3/4 x 15 3/4 inches)
(w/b/d incl. projecting parts)

Mass (approx.)

3.5 kg (12 lb 12 oz)

Design and specifications are subject to change without notice.

SACD/DVD RECEIVER

Sony Hcd Fr1 Home Theater Systems Owners Manual

Robert Harley, Acapella Publishing



Sony Hcd Fr1 Home Theater Systems Owners Manual:

The Compact Edition of the Oxford English Dictionary Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933 Home Theater for Everyone Robert Harley, Acapella Publishing, 2002-08 With this consumer's guide buyers of home theatre systems will be taken through the technology and components of home entertainment and learn how they suit their individual needs Consumers will discover the best components for their needs how to be a savvy shopper how to avoid buying the wrong technology and how to set up and fine tune a system In addition all the technologies behind home theatre are explained These technologies include DVD players audio video receivers multichannel speaker systems high definition television HDTV and digital satellite systems

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