

# D-E451/E455/E456CK/E459CK

## SERVICE MANUAL

Ver 1.0 1999.06

US Model



Photo : D-E451

Model Name Using Similar Mechanism	D-E441
CD Mechanism Type	CDM-2811EAA
Optical Pick-up Type	DAK-11E

### SPECIFICATIONS

#### CD player System

Compact disc digital audio system

#### Laser diode properties

Material: GaAlAs

Wavelength :  $\lambda = 780 \text{ nm}$

Emission duration: Continuous

Laser output : Less than  $44.6 \mu\text{W}$  (This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

#### Error correction

Sony Super Strategy Cross Interleave Reed Solomon Code

#### D-A conversion

1-bit quartz time-axis control

#### Frequency response

20 - 20,000 Hz  $\pm 1 \text{ dB}$  (measured by IEC CP-307)

#### Output (at 4.5 V input level)

Headphones (stereo minijack)

15 mW  $\pm 15 \text{ mW}$  at 16 ohms

Line output (stereo minijack)

Output level 0.7 V rms at 47 kilohms

Recommended load impedance over 10 kilohms

#### General

##### Power requirements

For the area code of the model you purchased, check the upper left side of the bar code on the package.

- Sony BP-DM10 Rechargeable battery:  
2.4 V DC, Ni-Cd, 650 mAh
- Sony BP-DM20 Rechargeable battery:  
2.4 V DC, Ni-MH, 1,200 mAh
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack):  
US model: 120 V, 60 Hz
- Sony DCC-E245 car battery cord for use on car battery : 4.5V DC

Dimensions (w/o SD) (without projecting parts and controls)

Approx. 129 x 28 x 146 mm  
(5 1/8 x 1 1/8 x 5 3/4 in.)

Mass (without rechargeable battery)

Approx. 220 g (7.8 oz)

Operating temperature

5°C - 35°C (41°F - 95°F)

#### Supplied accessories

For the area code of the model you purchased, check the upper left side of the bar code on the package.

D-E451

AC power adaptor (1)  
Headphones (1)

D-E455

AC power adaptor (1)  
Headphones with remote control (1)  
Rechargeable battery (1)

D-E456CK

AC power adaptor (1)  
Headphones (1)  
Car battery cord (1)  
Car connecting pack (1)  
Video tape (2)  
Spare fuse (1)  
Spiral tube (1)

D-E459CK

AC power adaptor (1)  
Rechargeable battery (1)  
Headphones with remote control (1)  
Car battery cord (1)  
Car connecting pack (1)  
Video tape (2)  
Spare fuse (1)  
Spiral tube (1)

Design and specifications are subject to change without notice.

COMPACT DISC COMPACT PLAYER

SONY®



# Sony D E451 Cd Players Owners Manual

**KEN CLEMENTS**



### **Sony D E451 Cd Players Owners Manual:**

*Understanding and Servicing CD Players* KEN CLEMENTS,1994-09-20 Written specifically with service technicians and engineers in mind this book is designed as a bench side companion and guide to the principles involved in repairing and adjusting CD players Engineers will find this a helpful companion to the various service manuals The text takes a problem solving approach with numerous examples circuit diagrams and line drawings Engineers who need to achieve a better understanding of CD technology will find this book an essential tool for fault diagnosis adjustment and repair This book not only covers the mechanical design but also the integrated circuits within a CD player It is written for immediate application and is well illustrated so it should become a welcome addition to the rack of tools available to the service engineer Ken Clements has extensive experience of the service industry both as a service manager and later in technical training with Sony and Pioneer It is his hands on knowledge that makes the book so valuable not only as a wide ranging reference but also as a benchtop manual to be kept within reach at all times when working with CD players      **Compact Disc Player**

**Maintenance and Repair Service Manual** Gordon McComb,J. Cook,1987-04-01 With this complete guide CD owners will have all the information instruction they need to make sure their CD players are producing years from now the same kind of sound they re enjoying today Packed with quick reliable answers to the problems of maintaining repairing CD players this illustrated do it yourself guide takes the apprehension out of first time repairs By following the easy maintenance upkeep procedures included readers can ward off problems before they happen      Complete Guide to Compact Disc (CD) Player

Troubleshooting and Repair John D. Lenk,1986      **Troubleshooting and Repairing Compact Disc Players** Homer L. Davidson,1996 Updated to cover the newest models and enhanced with special flowcharts this information packed volume is the most practical book available on CD player troubleshooting and repair Topics are covered in greater detail than in competing manuals and abundant photographs and illustrations clearly reinforce the hands on instructions 450 illustrations

*Compact Disc Player Maintenance and Repair* Gordon McComb,John Cook,1987 Explains how compact disc players work offers advice on maintenance troubleshooting and repairs and discusses tools supplies and common malfunctions      **Stereo**

**CD Player DCD-F101** Denon, This is an instruction manual for the Denon DCD F101 CD player

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