

CDP-222ESD/505ESD /910

SERVICE MANUAL



(PHOTO: CDP-222ESD)

CDP-222ESD:
AEP Model
UK Model
E Model

CDP-505ESD:
US Model
Canadian Model

CDP-910:
US Model

SPECIFICATIONS

System	Compact disc digital audio system
Disc	Compact disc
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Laser output	Max. $44.6 \mu\text{W}^*$ * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Spindle speed	200 rpm to 500 rpm (CLV)
Scan velocity	1.2–1.4 m/sec.
Error correction	Sony Super Strategy Cross Interleave Reed Solomon Code
Number of channel	Two
D/A conversion	16-bit linear
Frequency response	2 – 20,000 Hz $\pm 0.5 \text{ dB}$
Signal-to-noise ratio	More than 102 dB
Dynamic range	More than 95 dB
Harmonic distortion	Less than 0.003% (1 kHz)
Channel separation	More than 98 dB (1 kHz)
Wow and flutter	Below measurable limit
Output jacks	

	Max. output level	Load impedance	Output impedance
LINE OUT	2 V (50 k Ω)	More than 10 k Ω	—
*DIGITAL OUT	0.5 Vp-p (75 Ω)	75 Ω	75 Ω
HEAD-PHONES	28 mW Variable, max	32 Ω	—

*DIGITAL OUT: CDP-222ESD, CDP-505ESD

General

Power requirements

CDP-222ESD:	AEP model 220 V AC 50/60 Hz UK model 240 V AC 50 Hz E model 120, 220 or 240 V AC adjustable, 50/60 Hz
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CDP-505ESD, CDP-910:

120 V AC 60 Hz

Power consumption

15 W

Dimensions

Approx. 430 x 100 x 335 mm (w/h/d)
(17 x 4 x 13 $\frac{1}{4}$ inches)

Weight

Approx. 5.3 kg (11 lb 11 oz), net

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE \triangle SUR LES DIAGRAMMES SCHEMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

COMPACT DISC PLAYER
SONY[®]



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GENERAL DESCRIPTION

Direct selection

You can play a desired selection simply by pressing the corresponding numeric button (1-20).

Program play

You can play up to 20 selections in the desired order. Selections can be programmed even after play begins.

Variety of playing modes

Disc, program, shuffle and repeat playing modes.

Large and easy-to-read window display

Shows the elapsed playing time, the remaining time of the selection being played, the remaining time of the whole disc or remaining programmed selection numbers.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

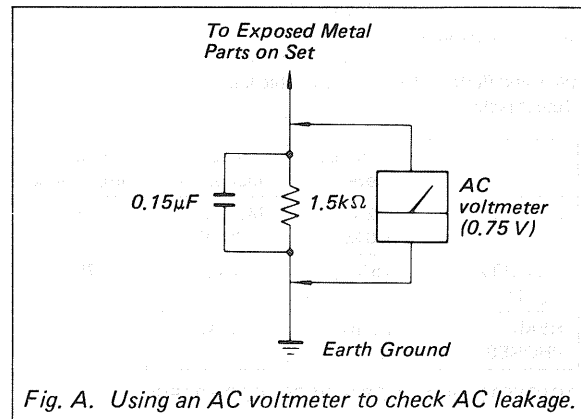


Fig. A. Using an AC voltmeter to check AC leakage.

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CORRECTION-1

File this correction with the service manual.

• Page 26.

— Incorrect —

— Correct —

<u>No.</u>	<u>Part No.</u>	<u>Description</u>	→	<u>No.</u>	<u>Part No.</u>	<u>Description</u>
154	A-4681-006-B	ARM ASSY, CHUCKING		154	A-4681-011-B	ARM ASSY, CHUCKING

