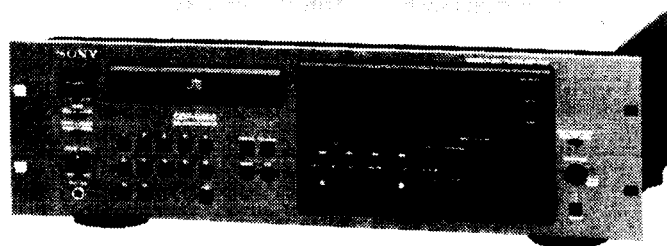


CDP-D500

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model



Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM19G-5R
Base Unit Name	BU-5R
Optical Pick-up Name	KSS-213B/K-N

SPECIFICATIONS

Compact disc player

Frequency response	5 Hz to 20 kHz \pm 0.3 dB (at 10 kilohms)
Signal-to-noise ratio	More than 100 dB (20 kHz LPF, IHF-A weight)
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.004% (1 kHz, 0 dB, 20 kHz LPF)
Channel separation	More than 100 dB (1 kHz, 20 kHz LPF)

Analog outputs

Connector	Type	Output impedance	Maximum output level	Load impedance
ANALOG OUT (BALANCE)	XLR-3	100 ohms	+24 dBs	More than 10 kilohms
ANALOG OUT (UNBALANCE)	Phono jacks	200 ohms	+ 9 dBs	More than 10 kilohms
PHONES	Stereo phone jack	150 ohms	15 mW	32 ohms

Digital outputs

Connector	Type	Output impedance	Load impedance
DIGITAL OUT (AES/EBU)	XLR-3	50 ohms (balanced)	110 ohms
DIGITAL OUT (IEC-958)	Phono jacks	75 ohms (unbalanced)	75 ohms

Word input

Connector	Type	Input impedance	Input level	Input frequency
EXT SYNC INPUT	BNC	22 kilohms/75 ohms, switchable	2 V p-p (TTL level)	44.1 kHz \pm 12.5%

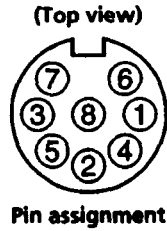
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COMPACT DISC PLAYER

SONY®



REMOTE (8P) connector



Pin number	Mode 1	Mode 2
①	PLAY COMMAND IN 	PLAY/STOP COMMAND IN IN PLAY STOP
②	STOP COMMAND IN 	IC**
③	NC*	BACK CUE COMMAND IN
④	PLAY STATUS PIT	←
⑤	STOP STATUS OUT	←
⑥	NC*	←
⑦	+5V OUT	+5 V OUT
⑧	GND	GND

* No connection

** Inner connection

General

Power requirements

Where purchased	Power requirements
U.S.A., Canada	120 V AC, 60 Hz
Europe	230 V AC, 50/60 Hz

Power consumption	16 W
Dimensions (approx.) (w/h/d)	482 × 145 × 355 mm (19 × 5 3/4 × 14 in.) incl. projecting parts
Mass (approx.)	7.2 kg (15 lbs 13 oz)

Supplied accessories

- AC power cord (1)
- Remote commander (1)
- Sony SUM-3 (NS) batteries (2)
- Screws (M5 × 12) (4)
- Decorative washers (4)

Design and specifications are subject to change without notice.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The following caution label is located inside of the unit.

CAUTION	: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL	: USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSBRØKENE ER UD AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	: AVATTRESSA JA SUOJALUKITUS OHITETTÄESSÄ EI OLE ALITTAVA LASERILMESTYKSELLE.
VARNING	: LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄNNEN ÄR URÖPPNAD.
ADVARSEL	: USYNLIG LASERSTRÅLING NÅR DØSSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLING.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ 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 MARQUE Δ SUR LES DIAGRAMMES SCHÉMATIQUES 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.

SAFETY CHECK-OUT

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 microamperes.). 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)

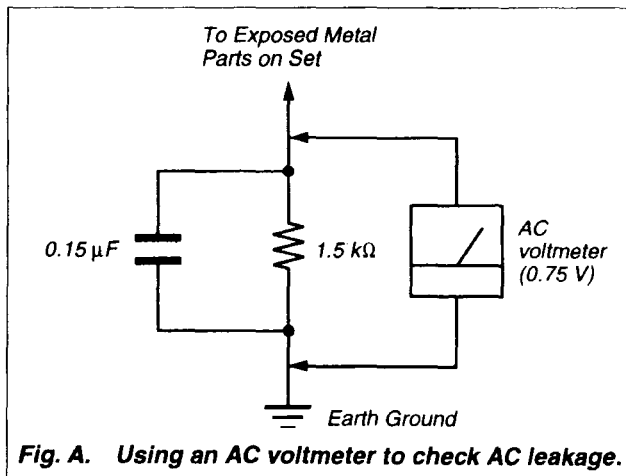


Fig. A. Using an AC voltmeter to check AC leakage.

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