

Dual



CS 550 HiFi

Bedienungsanleitung
Operating Instructions
Notice d'emploi

Sehr verehrte Kundin, sehr geehrter Kunde

Wir wünschen Ihnen viel Freude mit Ihrem DUAL-Gerät.
Bitte, lesen Sie vor der ersten Inbetriebnahme diese Bedienungsanleitung sorgfältig durch.

Bei eventuellen Funktionsstörungen wenden Sie sich bitte an Ihren DUAL-Fachhändler. Er ist für den Kundendienst und für Garantieleistungen zuständig.

Dear customer

You are now the owner of a DUAL unit of guaranteed quality. Please read these instructions carefully before using your new equipment for the first time. Even though operation is rather simple, you can only utilize the full advantages, if you are thoroughly familiar with the particular features of this unit. Your dealer has sole authorization in respect of servicing and repairs under warranty. Your dealer will guarantee that any work carried out is of high quality and he also is a DUAL specialist trained and kept up to date by DUAL.

Chère cliente, cher client

En achetant cet appareil DUAL chez votre revendeur, vous venez d'acquérir un produit de qualité.
Veuillez lire ces instructions de service avant de mettre l'appareil en marche. Sa manipulation ne vous posera certainement aucun problème, mais vous ne pouvez utiliser pleinement toutes les possibilités de l'appareil que si vous le connaissez bien. Seul votre revendeur est compétant pour le service après-vente et les cas de garantie. Il effectuera les travaux de garantie; et il connaît très bien les appareils DUAL car DUAL donne une formation à ses partenaires du commerce spécialisé et les tient informés en permanence.



Zubehör / accessories / accessoires



Fig. 12
RCA(Chinch)-Kabel
RCA(Chinch)-cables
RCA(Chinch)-câbles



Fig. 13
Masse / Erdleitung
Earth wire
Cosse de masse



Fig. 14
Steckernetzgerät
Power supply
L'adaptateur secteur

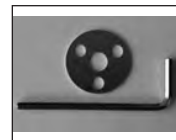


Fig. 15
Ausgleichsscheibe / Inbusschlüssel
Shim / Allen key
Rondelle / clé Allen

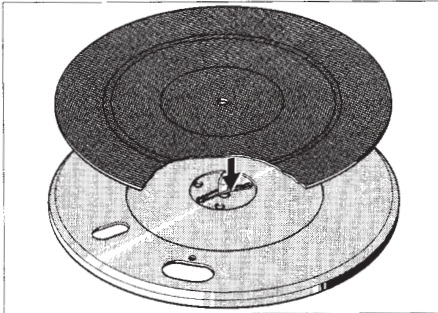


Fig. 1

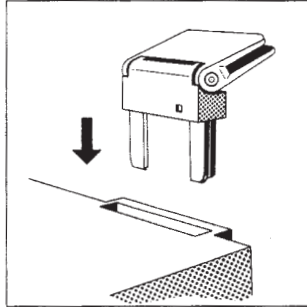


Fig. 2



Fig. 3

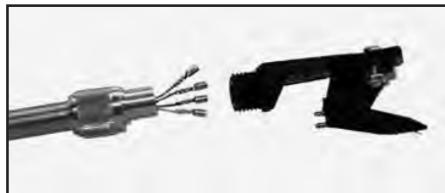
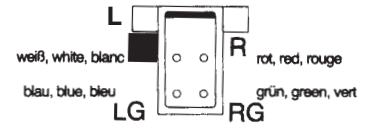


Fig. 4



R = rechter Kanal / right channel / canal droit
 RG = rechter Kanal Masse / right channel ground /
 masse canal droit
 L = linker Kanal / left channel / canal gauche
 LG = linker Kanal Masse / left channel ground /
 masse canal gauche

Fig. 5

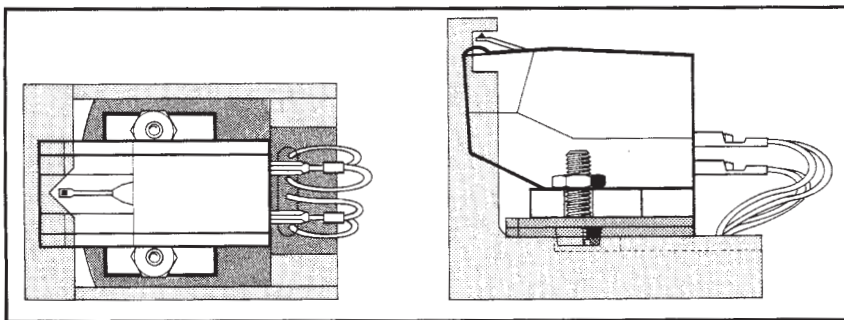


Fig. 6

ACHTUNG: Um Brandgefahr oder elektrische Schäden vorzubeugen, darf das Gerät nicht Feuchtigkeit oder Regen ausgesetzt werden.

WARNING: To prevent fire or shock hazard, do not expose this product to rain or moisture.

ATTENTION: Pour éviter les incendies ou les dommages électriques, l'unité ne doit pas être exposé à l'humidité ou à la pluie.

ENGLISH

1. Cover
2. Hinge
3. Tone arm counter weight
4. Scale for setting tone arm tracking force
5. Lift lever
6. Tone arm support with tone arm lock
7. Speed selector – ON / OFF
8. Head shell locking nut
9. Securing screw for headshell
10. Antiskating setting
12. Audio Cinch plugs connection
13. Ground connection
14. Connection socket for mains adapter 12 V/DC

Preliminary operations

Unpack the unit and all accessories. Please keep the packaging for future use when transporting the device.

- Fit the platter and depress the locking mechanism in its centre until it engages in the groove of the platter spindle (Fig. 1). Place the platter mat in position.
- Insert the hinges **2** in the appropriate recesses (Fig. 2)
- Slide the cover **1** parallel to the position of the hinges **2** (opening angle approximately 60°) until it locks in position. In this position, the cover can be removed at any time.

Supply of the mains set

The delivered mains set (Fig. 14) will be connected to the socket **14**. The mains set, corresponding to the voltage indication on the nameplate, has to be plugged into a power supply plug either with 230 V / 50 Hz or 115 V / 60 Hz on the primary side.

Connection to amplifier or receiver

- Connect the audio cables (Fig. 12) to the phono-magnetic-inputs of the amplifier or receiver **12** (red or black RCA-type plug = right channel, white RCA-type plug = left channel).

- Connect one side of the earth wire (Fig. 13) on the ground socket on the device **13** and the other end to the amplifier..

Balancing the tonearm and setting the tracking and antiskating force – for example cartridge OM 10

1. Remove the needle protector
2. Set tracking force **4** to 0 and switch off the antiskating device **10**.
3. Turn the counterbalance **3** on the tonearm (Fig. 3). Unlock the tonearm and move it over the tonearm rest. Move the lift lever **5** to the rear. Hold the tonearm whilst doing so.
4. Balance the tonearm precisely by turning the counterbalance. The tonearm is balanced precisely when it pivots freely.
5. Set the required tracking force for the cartridge by turning the dial **4**. The tracking force for cartridges OM 10 = 15 mN = dial position 1.5.

Set the appropriate value of the antiskating device **10** on the basis of the following table:

Tracking force Tracking force scale 4	Antiskating setting 10
1 = 10 mN	1
1.25 = 12.5 mN	1.25
OM 10 -> 1.5 = 15 mN	1.5
2 = 20 mN	2
2.5 = 25 mN	2.5
3 = 30 mN	3

Height adjustment of tone arm

The entire tone arm assembly can be adjusted in height by removing the three screws on the bottom of the turntable. Now you can lift the tone arm from the top carefully.

Attention: the tonearm cables should not be tensioned or overstretched!

Insert as needed one, two or three of the accompanying shims (Fig. 15) congruently over the three holes.

Then fix the tone arm back with the three screws.

Manuel start, speed selection 33/45, tone arm lift

With the speed selector **7**, the corresponding speeds 33/45 can be set.

With this button, the device is also started.

- Remove stylus cover forwards and move lift lever **5** forward.
- Now position the tone arm over lead-in groove of the record and push the lift lever **5** back. The tone arm is now lowered slowly, thus preventing damage to your records.
- The tone arm can be raised at any position, also for brief interruptions when playing. For this, slide the lift lever forward. The platter continues to rotate in this case.

Switch off

When the record is played completely, slide the lift lever forward. The tone arm is raised.

Now, run back the tone arm by hand on the arm rest **6** and slide the lift lever **5** to the rear.

If the speed selector **7** is turned to „0“, the device is switched off.

Mounting or exchanging a pick-up cartridge system

Change of cartridge system

- Remove the coloured signal leads carefully from the cartridge pins with a pair of tweezers (Fig. 4).
- Unscrew the cartridge.
- Screw the new cartridge onto the head shell but do not tighten. Attach the leads to the pins while observing the correct coding.

Cartridges with standard half-inch mounting holes and a weight between 3 and 10 grams can be installed

Change of headshell

- Remove the coloured signal leads carefully from the cartridge pins with a pair of tweezers (Fig. 4).
- Loosen the collar-lock **8** behind the head shell. Carefully pull the coloured signal leads out of the head shell (Fig. 4). Install the new head shell in reverse order. Pay attention to the correct colour coding.

R = Red, right channel

RG = Green, right channel ground

L = White, left channel

LG = Blue, left channel ground

Adjusting after change of pick-up cartridge system

For the precise adjustment of the so-called stylus overhang push the supplied mounting gauge into the head shell with cartridge. The adjustment is correct if the stylus flush with the V-shaped recess in the gauge as viewed from above. When viewed from the side the stylus should be seen within the rectangular recess of the gauge (Fig. 6). Adjust the cartridge in the head shell until the correct positions are achieved. Lastly, tighten the mounting screws, put the head shell with cartridge back on the tonearm and tighten the collar-lock **8**.

ATTENTION!

During these mounting and adjustment procedures you must be very careful not to damage the delicate stylus and cantilever by uncontrolled and brisk movements.

Stylus

The stylus is subjected to natural wear and tear during playing. We therefore recommend regular checks, which should be carried out after at least 300 playing hours in the case of diamond-tipped styli. Worn out or damaged (chipped) styli damage records. In the event of a replacement being necessary, use original styli. Other styli often cause audible reductions in quality and increased wear to records. Remove the stylus. To fit a new stylus in follow the procedure in reverse order.

Technische Daten Meßwerte = typische Werte	Technical data Measured values = typical values	Caractéristiques techniques valeurs mesurées = valeurs typiques	
Riemenantrieb elektronisch geregelter Gleichstrommotor	Belt Drive electronic-controlled DC motor	Entraînement à courroie moteur à courant continu réglé par électronique	
Netzspannung (Steckdosen-Netzgerät)	Mains voltage (mains set)	Tensions secteur (adaptateur secteur)	100 – 240 V
Netzfrequenz	Line frequency	Fréquence secteur	50/60 Hz
Leistungsaufnahme	Power requirement	Concommodation	1,5 W
Plattenteller-Drehzahlen U/Min	Platter speeds rpm	Vitesses du plateau tr/mn	33, 45
Gleichlaufschwankungen DIN	Wow and Flutter DIN	Tolérance de vitesse DIN	± 0,05 %
Störspannungsabstand (DIN 45500) Rumpel-Fremdspannungsabstand Rumpel-Geräuschspannungsabstand	Signal-to-noise ratio (DIN 45500) Rumpel unweighted signal-to-noise ratio Rumpel weighted signal-to-noise ratio	Rapport signal/bruit (DIN 45500) Signal/tension extérieure de ronflement Signal/tension perturbatrice de ronflement	48 dB 72 dB
Effektive Tonarmlänge	Effective tonearm length	Longeur efficace du bras	218 mm
Kröpfungswinkel	Offset angle	Angle de coude	26°
Überhang	Overhang	Excédent	19,5 mm
Tangentiale Spurfehlerwinkel	Tangential tracking error	Angle tangentiel de l'erreur de piste	0,15°/cm Rad.
Abmessungen (B x H x T) mm	Dimensions (W x H x D) mm	Dimensions (L x H x P) mm	440 x 135 x 370
Gewicht	Weight	Poids	8,3 kg
Änderungen vorbehalten	Subject to modifications	Sous réserve de modifications	

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