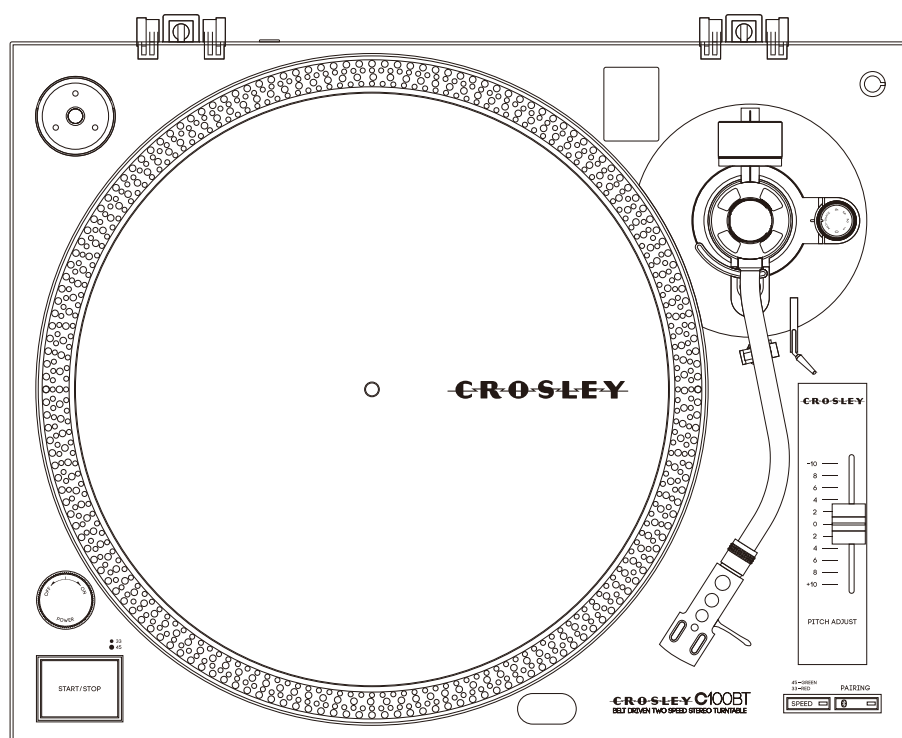# C100BT

C100 TURNTABLE

OPERATING INSTRUCTIONS

CROSLEY

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions carefully.
2. Keep these instructions for later reference.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use the device near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Always ensure a sufficient ventilation. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce or radiate heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades, one being wider than the other. A grounding- type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched or otherwise damaged, particularly at plugs, convenience receptacles, and the point where they exit from the device.
11. Only use attachments/accessories that have been specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold along with the device. When a cart is used, use caution when moving the cart/device combination to avoid injury from tip-over.
13. Unplug this device during lightning storms or when not being used for longer periods of time.
14. Refer all servicing to qualified service personnel only. Servicing is required when the device has been damaged in any way, such as: Power-supply cord or plug has been damaged, liquid has been spilled or entered the device, the device has been exposed to rain or moisture, or objects have fallen into the device, the device does not work normally, or it has been dropped.
15. Where a mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
16. Please keep the unit in a good ventilation environment at any time.

The lightning flash with the arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of an electrical shock.
Le symbole de l'éclair terminé par une flèche situé à l'intérieur d'un triangle équilatéral avertit l'utilisateur de la présence de tension dangereuse non isolée dans l'appareil, dont l'amplitude peut constituer un risque de choc électrique.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.
Le symbole du point d'exclamation dans un triangle équilatéral vise à avertir l'utilisateur de la présence, dans la documentation accompagnant cet appareil, d'importantes instructions de fonctionnement et d'entretien.

WARNING!/ AVERTISSEMENT!

To reduce the risk of fire or an electrical shock, do not expose this device to rain or moisture. The device must not be exposed to dripping or splashing water. Furthermore no objects filled with liquids, such as vases, shall be placed on the device.
Afin de réduire les risques d'incendie ou de choc électrique, n'exposez pas cet appareil à la pluie et à l'humidité. L'appareil ne doit pas être exposé au ruissellement ni à la projection d'eau et aucun objet contenant un liquide, tel qu'un vase, ne doit être posé dessus.

ATTENTION
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: In order to reduce the risk of an electrical shock, do not remove any cover. There are no user-serviceable parts inside the device. Refer servicing to qualified service personnel only.
ATTENTION : Pour réduire le risque de choc électrique, ne déposez aucun capot. L'appareil ne contient aucun composant réparable par l'utilisateur. Toute réparation doit être confiée à un centre de services qualifié.

Caution Marking and rating plate was located at rear enclosure of the apparatus.
Avertissement La plaque signalétique est située a l'arrière de l'appareil.

When the mains plug or appliance coupler is used as disconnect device, it shall remain readily operable.
lorsque la prise du RESEAU D'ALIMENTATION sur l'appareil est utilisée comme appareil de déconnexion, cet appareil doit demeurer aisément accessible.

The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.; Minimum distances 10cm around the apparatus for sufficient ventilation.
Il convient que l'aération ne soit pas gênée par l'obstruction des ouvertures d'aération par des objets tels que journaux, nappes, rideaux, etc.;Distance minimale 10cm autour de l'appareil pour une aération suffisante.

No naked flame sources, such as lighted candles, should be placed on the apparatus;
il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

Use the apparatus only in a moderate climate.
N'utiliser l 'appareil que dans des climat modéré.

FEATURES

STANDBY

This device is provided with an automatic standby mode which is automatically activated after 20 minutes of non-use. In standby mode, the power consumption of the turntable is reduced to less than 0.5 W to avoid unnecessary power consumption. The standby mode will be interrupted automatically as soon as the START/STOP button is pressed.

AUTO STOP

Auto stop, also known as auto shut off, uses a system to halt the record from spinning once it has finished playing or the stylus doesn't come into contact with the vinyl record for 5 minutes, rather than continuing to wear at the stylus.

BLUETOOTH

Connecting with the BLUETOOTH function, You can enjoy playing vinyl records by using your turntable's BLUETOOTH function to connect wirelessly to a playback device (not supplied) that supports BLUETOOTH wireless technology, such as BLUETOOTH speakers or BLUETOOTH headphones.

PLACEMENT

- Do not place the unit in a location where it will be exposed to direct sunlight or near a heating appliance.
- Do not place the unit in a location where there is high humidity or a lot of dust.
- Cartridge may pick up slight sound pressures or vibrations of the speakers coming along the floor or through the air resulting in feedback or "howling" sound. Find a location which is very stable and vibration free.
- The legs have functions for adjusting the height of the unit itself. Adjust the legs to stabilize the main body horizontally.
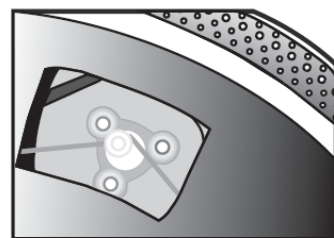

BEFORE USE

VERY IMPORTANT!!

Do not forget to attach rubber belt to motor for correct operation.
After placing the Turntable Platter onto the turntable through the Center Spindle, move one of the large windows on the Platter to top right corner.
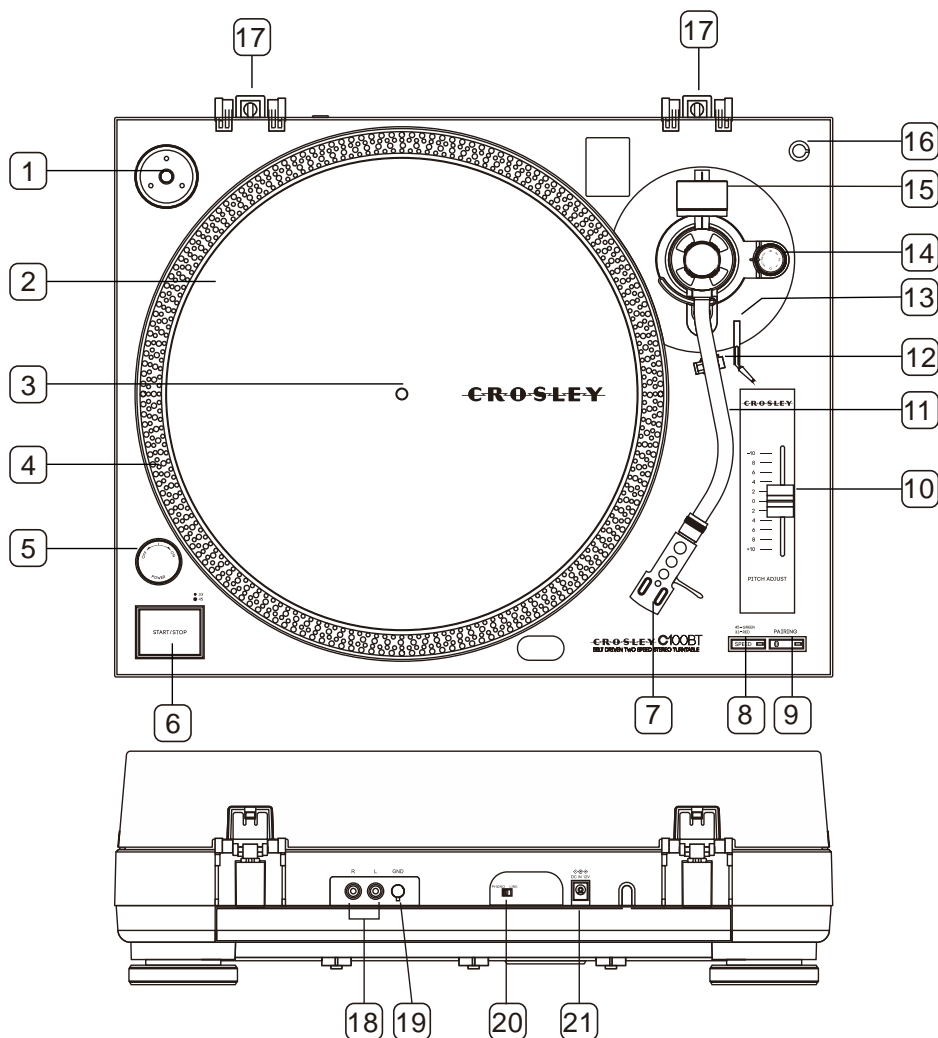Attach rubber belt around motor.

(*Rubber belt is already attached to the underside of the Turntable Platter.)

Notes:

(1) Do not connect the power adapter before assembly has been completed.

(2) Before turning the power on, make sure once again all the connections and power voltage settings are correct.
  Always turn off the power when connecting or disconnecting.

(3) Read this manual carefully before using the unit.
  Be sure to store the manual in a safe place for future reference.

PART NAMES and FUNCTIONS

1. 45-rpm Adaptor

This adapter allows you to play standard 7" EP vinyl records with large center holes. Place the adapter on the CENTER SPINDLE 7" records.

2. Turntable Platter

This platter connects directly to the center spindle. The platter and center spindle holds a vinyl record perfectly center. The platter also spins the record at a consistent speed.

3. Center Spindle

This spindle holds the turntable PLATTER records stable and centered.

4. Strobe Indicators

The PLATTER has four rows of indicators. These indicators are used to visually detail various stages of pitch. The indicators are illuminated by the STROBE INDICATOR PILOT LAMP. Each row may appear to stand still at different pitch levels.

Note: The use of heavy fluorescent lighting directly above the turntable will defeat the STROBE PILOT LAMP affect indicator accuracy.

5. Power On/Off Switch

This is a rotary power switch. To turn main power on turn the switch in a clockwise direction. To turn main power off turn the switch in counter-clockwise direction.

6. Start/Stop Button

This oversized push button controls platter motion. When the unit is turned on the platter will not automatically begin to spin. Pressing the button once will engage the high torque motor and spin the platter, pressing this again will stop the platter.

7. **Headshell**

The included HEADSHELL is used to connect your stylus with the tonearm.

8. **Speed Select Button**

The button is used to switch the platter rotation between 33 or 45 RPM. When the 33 RPM is engaged, the red LED will light up; when the 45 RPM is engaged, the green LED will light up.

9. **Pairing Button/ Indicator**

Enables/disables the BLUETOOTH function.

Press for about 2 seconds and release to turn on your turntable's pairing mode.

The indicator lights blue while the turntable is connected to the BLUETOOTH wireless technology enabled playback device with the BLUETOOTH function.

The indicator rapidly flashes blue while the turntable is in pairing mode, and turns off when the BLUETOOTH function is disabled.

If there are no devices nearby that have already been paired when you press the PAIRING button with the BLUETOOTH function disabled, the indicator lights red and the turntable goes into standby.

10. **Pitch Control Slider**

This slider is used to adjust the playback pitch percentage (platter speed).

11. **Tonearm**

12. **Arm Rest Clamp and Rest**

Use this rest to safely hold the tonearm in position during non use and transportation.

13. **Tonearm Lever**

This lever is used to safely elevate the tonearm above a record surface without endangering a records surface**.**

14. **Anti-skate Knob**

The anti-skate applies inward force to the tonearm to prevent outward skipping across the record due to the centrifugal force cause by platter rotation. The anti-skate value should be equally to that of the stylus counterweight pressure.

15. **Counterweight**

Use the counterweight to balance the tonearm and to adjust the stylus pressure.

16. **Extra Headshell Holder**

This cutout has been designed to safely store an extra headshell.

17. **DUST COVER HINGE HOLDERs**

Attachment points for dust cover hinges.

18. **RCA output jack**

The output is switchable PHONO/LINE output. Depending on the position of the phono/line switch, you can connect the turntable to any phono or line input. Connect the RCA-cables (white=left channel, red=right channel) with the Phono-sockets of your amplifier or mixer.

19. **Ground terminal (GND)**

Connect the ground lead with the ground terminal of your amplifier or mixer.

20. **Phono/Line Switch**

This switch is used to change the mode of PHONO OUTPUT or LINE OUTPUT.

21. **DC IN Jack**

ASSEMBLY

1. Remove the main unit with the packing from the box and remove the packing.

2. Set the 45-rpm adaptor on the main unit.

3. Set the turntable platter onto the center spindle.

4. Set the slip mat on the platter.

5. Installation of cartridge:
   When installing a cartridge, refer to the operating instructions of that cartridge.
   During installation, attach the stylus protector to guard the stylus tip from damage.

   (a) Connect the lead wires to the cartridge terminals. The terminals of most cartridges are color coded.
       Connect each lead wire to the terminal of the same color.
       White (L+) ....Left channel +
       Blue   (L-) ....Left channel -
       Red   (R+)....................Right channel +
       Green (R-).....................Right channel -

   (b) Install the cartridge to the headshell and tighten it with screws provided with the cartridge.

6. Insert the headshell into the front end of the tonearm, and then turn the lock nut counterclockwise with the headshell firmly held horizontally.

7. Slide counterweight onto tonearm.
   Twist it lightly and it will screw onto the rear shaft of the tonearm.

8. Adjustment of horizontal "zero" balance and stylus pressure:
   (a) Remove the stylus protector from the headshell; do not touch the stylus tip during the adjustment.
   (b) Set the tonearm lever to the lowered position.
   (c) Release the tonearm clamp and lift the tonearm from the arm rest to free it.
   (d) Rotate the counterweight until the tonearm is approximately balanced horizontally (floats freely).
   (e) Refasten the tonearm with the tonearm clamp.
   (f) Hold the counterweight stationary with one hand and rotate only the stylus-pressure ring to bring the number "0" of the ring into alignment with the center line on the tonearm rear shaft.
   (g) Rotate the counterweight including the stylus-pressure ring counterclockwise until the scale shows the value corresponding to the pressure of the stylus used. Should you use a separate Stylus, please follow the manufacturer's instructions.

9. Set the anti-skating control knob to the same value as the stylus pressure.

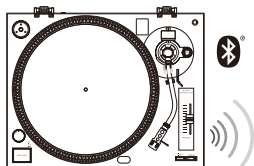10. Install the dust cover to the main unit's dust cover hinges.

MAINTENANCE

• Clean the stylus periodically with a soft brush to prevent the accumulation of dust.

• When sound becomes distorted or noisy, check the stylus. If the stylus is worn out, replace it with a new one.

• From time to time, the dust cover and turntable cabinet should be wiped down with a soft, dry cloth.

• Volatile materials should not be used, such as: alcohol, thinner, benzine etc.
  They may remove the paint or damage the luster.

CONNECTIONS

You can connect to a speaker, etc. via Bluetooth Wireless Connection or RCA audio cable.

BLUETOOTH WIRELESS CONNECTION
When using Bluetooth, refer to "Bluetooth Function" paragraph.

WIRED CONNECTION
Before connecting the unit it is advised that you also consult your current equipment instruction manual.

1. Be sure to turn off the audio device, such as a stereo system or an amplifier, before connection.
   Be sure to make all the connections before you connect the power adaptor to a power outlet.
   Note: To avoid noise interference, place the AC adaptor body away from your turntable as far as possible.

2. Connect the RCA cable to the PHONO input of your AMPLIFIER when you set the PHONO/ LINE switch to PHONO position. You can also use a line input by setting the PHONO/ LINE switch at the rear of the turntable to LINE.

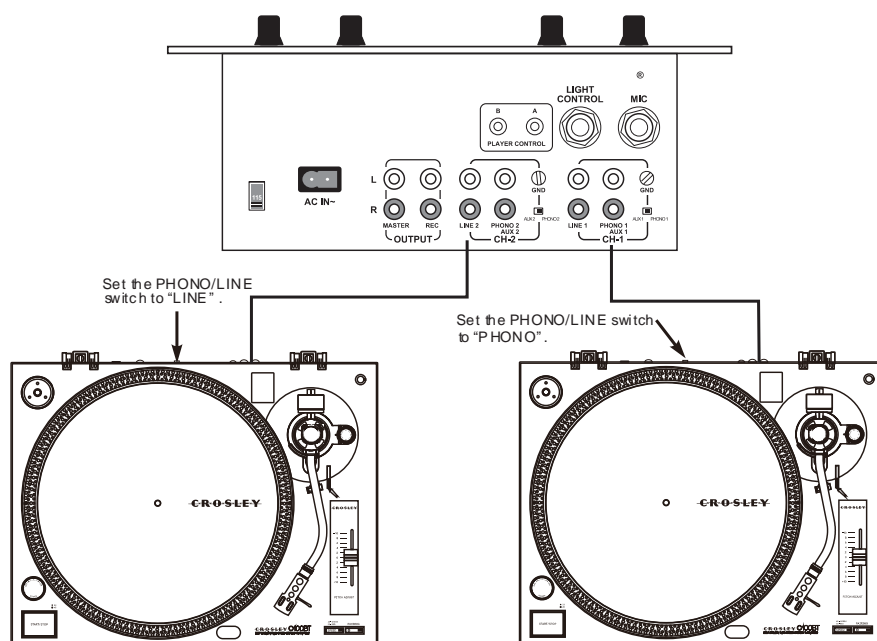 | Output terminals | Amplifier (Receiver) |
   | --- | --- |
   | L (White) | L Channel |
   | R (Red) | R Channel |
   | GND (Spade) | GND |

   NOTE:
   Be sure to connect the ground terminal firmly to the amplifier or receiver.

   If this connection is not made or is loose, a power source "HUM" will result.

BLUETOOTH FUNCTION

Very Important

- The shakes from pressing the PAIRING button while playing a vinyl record may cause the stylus to skip. We strongly recommend connecting to BLUETOOTH before playing a vinyl record.
- Do not connect to headphones which you cannot adjust the volume. Audio tracks may be played at very loud volumes.

Pairing Devices to Your Turntable

When you first connect your turntable to a playback device that supports BLUETOOTH wireless technology, you must pair it with the device.

The turntable can register information of up to 8 paired devices, without having to pair the next or subsequent times you connect the device to the turntable.

1. Place the playback device that supports BLUETOOTH wireless technology to which you want to connect, as close to your turntable as possible.
2. Press and hold your turntable's PAIRING button for about 2 seconds, and then release it. The BLUETOOTH indicator rapidly flashes blue.
3. Turn on the pairing mode for the playback device that supports BLUETOOTH wireless technology, to which you want to connect.

The above illustration is one example of a device that is connecting.

For how to turn on the pairing mode for the device to which you want to connect, refer to the user's instructions supplied with the device.

The BLUETOOTH indicator stops flashing blue and remains lit when pairing is complete.

Note

If you are only using the BLUETOOTH connection and not connecting your turntable to another device using the audio cable, set the OUTPUT SELECT switch on the back of the turntable to LINE to use the turntable.

Tip

- Once you have paired your turntable and device, you can connect to the paired device simply by giving a short press to the BLUETOOTH button/PAIRING button to enable your turntable's BLUETOOTH function. You can also connect to the paired device and play vinyl records by pressing the START button on the front of the turntable when the BLUETOOTH indicator is lit orange (in standby).
- Press the BLUETOOTH button/ PAIRING button to disengage from the BLUETOOTH connection. The BLUETOOTH indicator turns off.
- You can register information for a maximum of 8 devices paired to your turntable. You can delete all information for paired devices by pressing and holding the BLUETOOTH button/ PAIRING button for about 10 seconds, and then releasing it.

If You Cannot Pair Devices

- If there are playback devices, which support BLUETOOTH wireless technology nearby, that have the BLUETOOTH function enabled, but some of them are not the device with which you want to pair, disable their BLUETOOTH function and try pairing again.
- With the pairing operation, the device with which you do not want to pair may be turned on and connected to the turntable automatically. If this occurs, change the device's setting not to turn on by the BLUETOOTH connection, turn off the device, and try pairing again.
- You cannot pair your turntable with smartphones, TVs, or computers. The turntable can use the BLUETOOTH function to send data to playback devices that support BLUETOOTH wireless technology; however, because the turntable cannot receive data from smartphones, TVs, or computers, the turntable cannot pair with them.

QUICK-START

1. Turn the On/Off Switch clockwise to turn on the power, the speed indicator and the strobe-illuminator, which is located beneath the On/Off switch, will light up.

2. Place a record on the slip mat. When playing a 45-rpm record with a large center hole, place the 45-rpm adapter on the center spindle.

3. Set the speed to match the record.

4. Remove the stylus protector from the Headshell Stylus, release the Tonearm clamp.

5. Set the tonearm lever to the up position.

6. Press the Start/Stop Button, the turntable platter will start to rotate.

7. Move the tonearm over the desired groove.

8. Set the tonearm lever to the down position, the tonearm will descend slowly onto the record and begin playing.

9. When play is finished, raise the tonearm lever, move the tonearm onto the Tonearm clamp.

10. Press the Start/Stop Button to stop the platter from rotating. Turn the On/Off Switch counterclockwise to turn off the power.

SUSPEND PLAY

Set the tonearm lever to "UP" position during play, the stylus tip of the cartridge will be lifted from the record.

CHANGING THE SPEED

• As long as the pitch control is in center "detent" click position, the turntable is operated at selected speed.

• The speed can be increased or decreased by 10% by the pitch control.

• An incorrect adjustment done on purpose can also be used to have the turntable rotate extremely slow or fast.

• The strobe dots at the edge of the turntable are used for speed monitoring.

SPECIFICATIONS

1. GENERAL SECTION:

Power Type	Adapter + AC plug
Power Input range	AC 100V~240V, 50/60Hz
Power Output	DC 12V/0.5A
Power Consumption	2.4W
Standby Power Consumption	<0.45W
Dimensions	450 (W) x 350 (D) x 145 (H) mm
Weight	4 Kg (Tentative)

2. STANDARD TEST CONDITION:

Ambient Temperature	23 +/- 2℃
Relative Humidity	65% +/- 5%

NOTE: Measurements can be carried out between 5 ℃ to 35 ℃ and 45% to 85% relative humidity.

3. TURNTABLE SECTION:

Type	2-speed full manual
Motor	DC motor
Driving Method	Belt drive
Turntable Platter (Plastic)	332mm dia Aluminum
Speeds	$33\frac{1}{3}$ and 45 rpm

4. TONEARM SECTION:

Type	Static balanced S-shaped tonearm with detachable headshell
Effective Arm Length	220 mm
Overhang	10mm
Tracking Error Angle	Less than 3 degree
Applicable Cartridge Weight	3.5~8.5g
Anti-skating Range	0-4
Tracking Force Adjustment range	0~4g
High of cue (first track)	8~10.5mm

5. Cartridge Details: Audio-Technica   AT95E Phono

Output Voltage	1KHz 5cm/sec: 3.5mV
Channel Balance	1kHz: 2 dB
Channel separation	1kHz: 20dB
Frequency response	20Hz~20kHz
Tracking force range	1.5~2.5g ± 1, (recommended 2.0g)

6. Bluetooth:

BT Module	BM880 (Sunitec)
BT Version	Bluetooth Ver4.2
Output power	Class 2 (0~4dBm, 2.5mW)
Maximum communication Range	Approx. 10M
Operating Frequency	2402 to 2480MHz
Modulation Method	GFSK、π/4-DQPSK、8DPSK
Compatible BT Profile	A2DP
Support Codec	SBC, aptX

SPECIFICATIONS

7. Output Sensitivity: (Phono Cartridge Input At 1KHz 5cm/sec (CD-4005).)

	Typical	Limited
LINE: 10K OHM / -15.1dBV(176mV)	± 1dB	± 1.5dB
Phono: 47K OHM / -50.7dBV(2.9mV)	± 1dB	± 1.5dB
BT (TX): -20.5dBFS(-24.1dBV)	± 1dB	± 1.5dB

8. Frequency Response: (Reference Input From VP-7727D)

	Typical	Limited	
Line: 20 - 20K Hz	+1/-1.5dB	+2/-3dB	Input At -50.7dBV

9. THD + N: (Reference Input 1KHz From VP-7727D)

	Typical	Limited	
Line	0.015%	0.07%	Input At -50.7dBV

11. Maximum Intput: (Reference Input 1KHz From VP-7727D)
adjust input 1KHz level to output level less than 1% T.H.D with A-w/20KHz LPF

	Typical	Limited
Line	-30.7dBV	-31.7dBV

11. S/N Ratio: (Phono Cartridge Input At DIN-B (SS-4242))

	Typical	Limited
Line & Phono	>65dB	>60dB

12. L&R Channel Separation: (Phono Cartridge Input At 1KHz 5cm/sec (CD-4005).)

	Typical	Limited
Line & Phono	>20dB	>15dB

13. L&R Channel Balance: (Phono Cartridge Input At 1KHz 5cm/sec (CD-4005).)

	Typical	Limited
Line & Phono	<2dB	<2.5dB

14. Wow and Flutter: (Phono Cartridge Input At 3KHz 5cm/sec (CD-4005).)

	Typical	Limited
Line & Phono	<0.08%	<0.15%

15. Speed Tolerance: (Phono Cartridge Input At 3KHz 5cm/sec (CD-4005).)

	Typical	Limited
Line & Phono	±0.5%	+3 / -2%

16. Speed Pitch ADJ: (Phono Cartridge Input At 3KHz 5cm/sec (CD-4005).)

	Typical	Limited
Line & Phono	±11%	±10%

17. ACCESSORIES SUPPLIED:
- Instruction manual x 1
- 45 rpm adaptor x 1
- Counter weight x 1
- Dust cover x 1
- Platter + Belt x 1
- Slipmat x 1
- 2P RCA Cord x 1
- Power Adaptor (with UL/PSE transfer plug)
- Headshell assembly x 1 (included Headshell, Cartridge, Stylus)

18. NOTES
(1) The specifications are subject to change to any improvement by negotiations in advance.
(2) The parts are subject to change to any improvement within the range of the specifications.

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.