# **Alva TT v2 and Alva ST Turntables**

Manual Generated: 22/02/2022 - 08:19

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### Alva TT v2 and Alva ST Turntables

Last updated: February 7, 2022 04:10. Revision #2935

This guide is designed to make installing and using this product as easy as possible. Information in this document has been carefully checked for accuracy at the time of printing; however, Cambridge Audio's policy is one of continuous improvement, therefore design and specifications are subject to change without prior notice.

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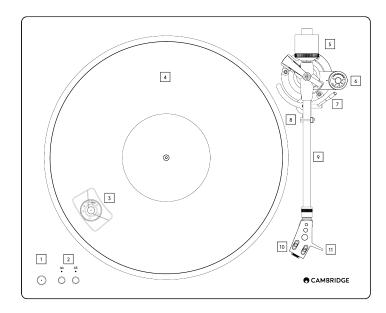
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# **Top view**

Last updated: October 14, 2021 09:36. Revision #2492



#### 1. Standby/On

Switches the unit between Standby mode (indicated by the dim LED) and On (indicated by the bright LED).

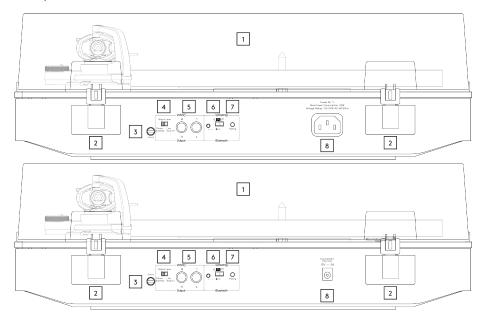
- 2. Record speed buttons and start/stop
- 3. Belt drive motor (Alva ST only)
- 4. Main platter
- 5. Tonearm counterweight

Used to adjust tracking force (downforce).

- 6. Anti-Skating dial
- 7. Tonearm lift lever
- 8. Tonearm rest
- 9. Tonearm
- 10. Fitted Cambridge Audio MC cartridge
- 11. Headshell with finger lift

# **Rear view**

Last updated: October 14, 2021 09:38. Revision #2493



### 1. Lid

### 2. Lid hinges and fasteners

#### 3. Ground

### 4. Output level (Phone/Line) switch

With the switch position set to Line (Alva TT/ST), the internal phono stage will be used. With the switch position set to Phono (External), an external phono stage needs to be used.

### 5. Signal output sockets

**Caution** - You must connect appropriately based on output level switch position.

### 6. Bluetooth status with LED On/Off switch

### 7. Bluetooth pairing button

#### 8. Power socket

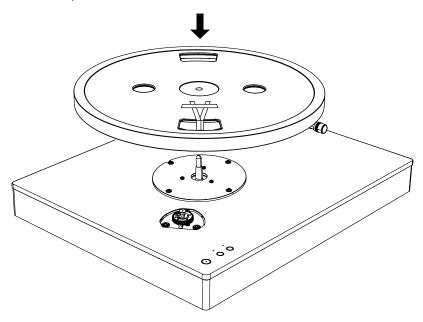
Alva TT v2: AC power socket

Alva ST: DC 12V 2.0A power adaptor socket

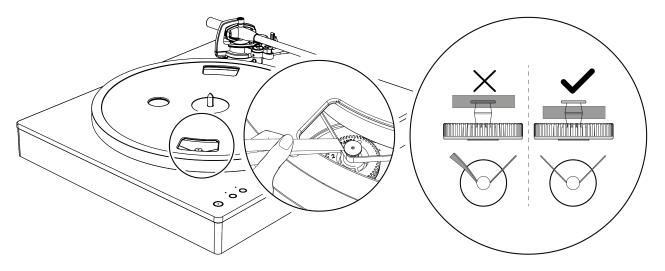
# **Setting up the Alva ST**

Last updated: October 14, 2021 09:39. Revision #2494

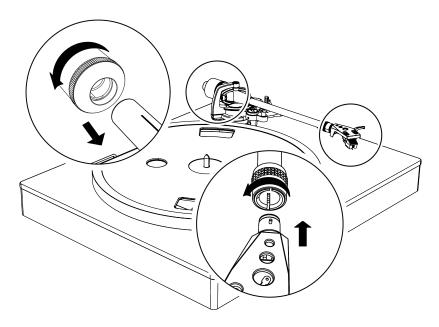
1. Place the platter on the turntable.



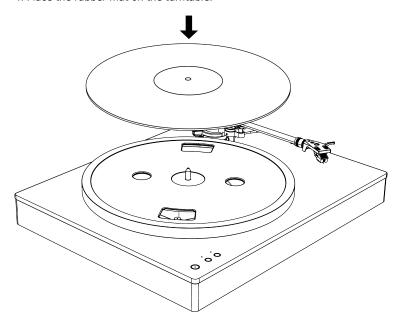
2. Install the belt drive. Make sure that the belt is installed properly around the motor.



3. Push and rotate counterweight onto tonearm and then carefully insert the headshell into the tonearm.



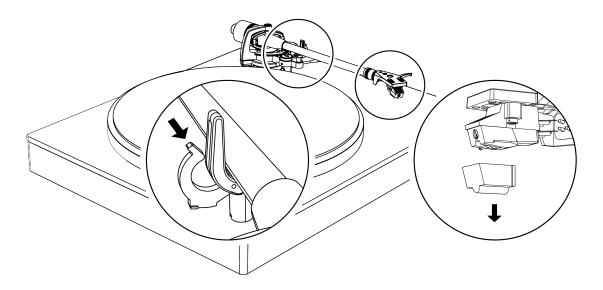
4. Place the rubber mat on the turntable.



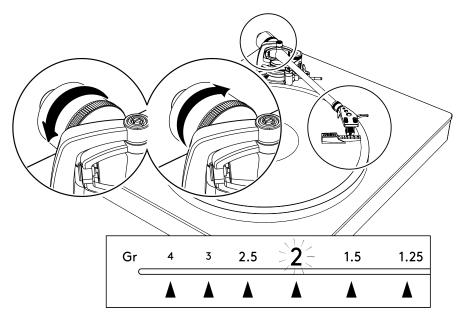
5. Release tonearm from rest and remove the stylus guard.

### Important notes:

- Take care when handling the cartridge. Lower gently onto the platter, do not drop. Make sure that the Anti-Skate dial is set to '0'.

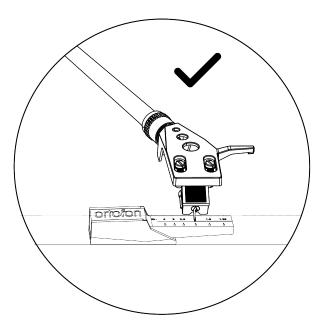


6. Place tonearm force gauge on the platter and carefully lower stylus onto "2".



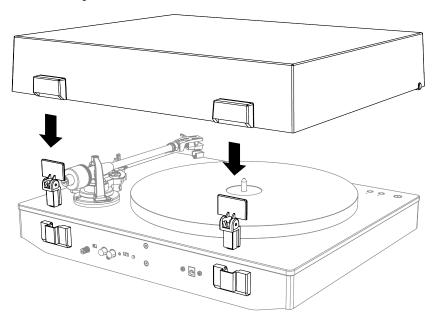
Adjusting the counterweight ensures the pressure the stylus applies to the record is correct. Too much pressure can cause distortion and lost information as well as wear to your records. Too little pressure and the stylus will jump and potentially damage your records.

Return the arm to its armrest to adjust the counterweight. This part of the process requires care and patience. Rotate anti-clockwise to increase balance weight or clockwise to decrease balance weight.



Adjust the counterweight until the stylus force gauge is in balance. Once the stylus is in balance, return the tonearm to its armrest. The anti-skate dial should be set to match the tracking force of the cartridge. Your factory-fitted cartridge has a tracking force of '2'.

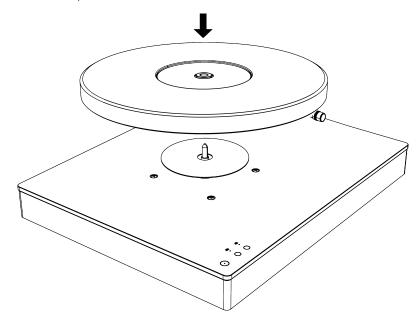
### 7. Connect hinges to the turntable and insert lid.



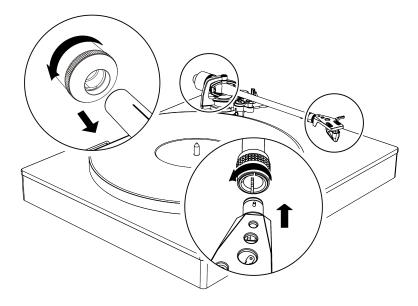
# Setting up the Alva TT v2

Last updated: October 14, 2021 09:40. Revision #2495

1. Place the platter on the turntable.



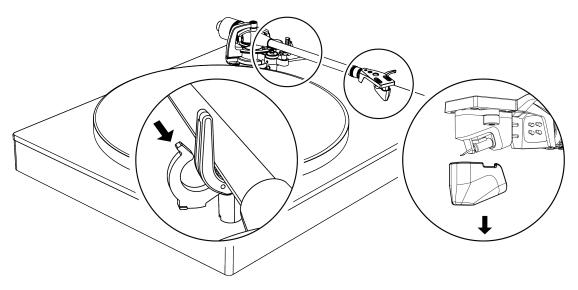
2. Push and rotate counterweight onto tonearm and then carefully insert the headshell into the tonearm.



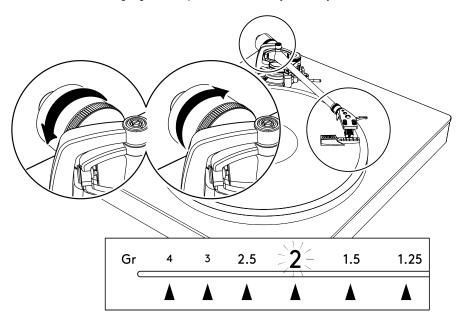
3. Release tonearm from rest and remove the stylus guard.

#### Important notes:

- Take care when handling the cartridge. Lower gently onto the platter, do not drop.
- Make sure that the Anti-Skate dial is set to '0'.

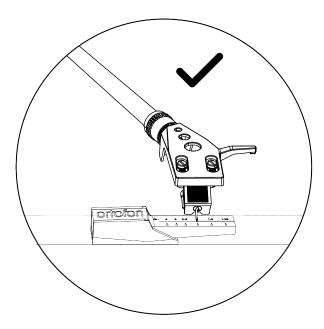


4. Place tonearm force gauge on the platter and carefully lower stylus onto "2"



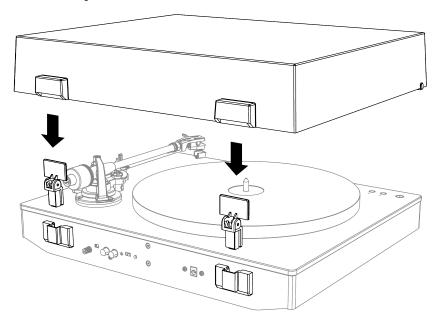
Adjusting the counterweight ensures the pressure the stylus applies to the record is correct. Too much pressure can cause distortion and lost information as well as wear to your records. Too little pressure and the stylus will jump and potentially damage your records.

Return the arm to its armrest to adjust the counterweight. This part of the process requires care and patience. Rotate anti-clockwise to increase balance weight or clockwise to decrease balance weight.



Adjust the counterweight until the stylus force gauge is in balance. Once the stylus is in balance, return the tonearm to its armrest. The anti-skate dial should be set to match the tracking force of the cartridge. Your factory-fitted cartridge has a tracking force of '2'.

### 5. Connect hinges to the turntable and insert lid



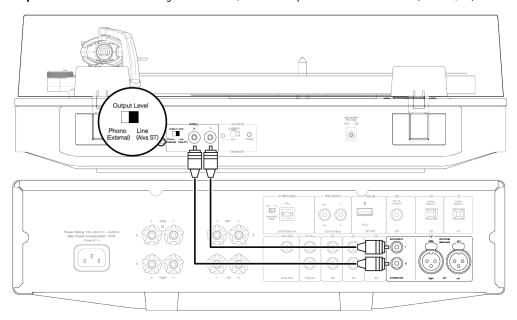
# **Getting connected**

Last updated: October 14, 2021 09:40. Revision #2496

# **Analogue audio connections**

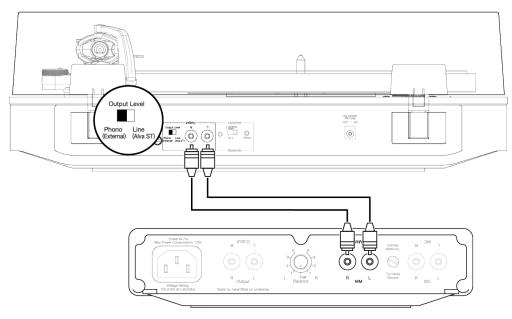
### **Output Level connection**

Important note: Before making a connection, set the Output Level switch to 'Line (Alva TT/ST)'. Do not connect to an external phono stage.

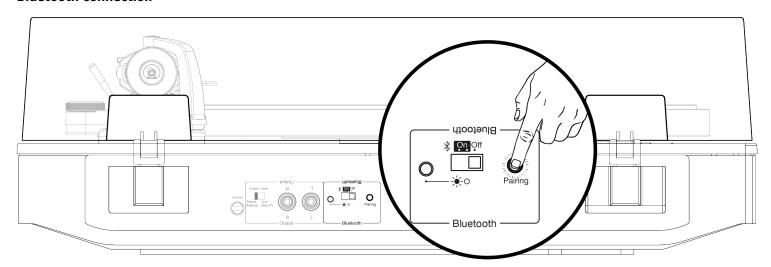


### **Phono connection**

Important note: Before making a connection, set the Output Level switch to 'Phono (External)'. Do not connect to the Line input of an amplifier.



### **Bluetooth connection**



# **Pairing**

Press and hold the Pairing button for 2 seconds to enter pairing mode.

If you haven't connected your turntable to a Bluetooth device previously, do the following.

- 1. Make sure your Bluetooth device is set to pairing mode (see your Bluetooth device instructions for how to do this).
- 2. Make sure that there's no other Bluetooth device that is in pairing mode near the turntable, such as a mobile phone.
- 3. The turntable will automatically pair to your Bluetooth device.

Press and hold the Pairing button for 10 seconds to clear connections and turn off Bluetooth.

**Note:** By default, the Bluetooth will attempt to connect to the last paired device.

### **LED Status**

Fast flashing – In pairing mode.

**Slow flashing** - Searching for the last paired device.

**Solid** - Paired to a device.

**Long solid intervals** - Paired to a device using aptX/aptX HD codec.

### **Operating instructions**

Last updated: October 25, 2021 01:36. Revision #2497

### **Playing Records**

- 1. Place your record over the spindle and press the power button on the top panel.
- 2. Press required platter rotation speed (33 or 45) button on the top panel.
- 3. Raise the tonearm by moving the lift lever towards the rear of the turntable.
- 4. Position the tonearm over the desired location (groove) on the record.
- 5. Lower the tonearm by moving the lift lever towards the front of the turntable.

### **Ending Play**

- 1. Lift the tonearm with the lift lever.
- 2. Move the tonearm back to the tonearm rest.
- 3. Secure the tonearm with the tonearm clamp.
- 4. Press the platter speed button to stop the platter rotation.
- 5. Press the power button to enter standby.

### Auto Power Down (APD)

The turntable will automatically switch to standby mode after 20 minutes of inactivity.

To disable APD press and hold the power button for 5 seconds when in standby.

To re-enable APD hold down the power button when plugging the mains power cable into the turntable.

Note: APD is automatically disabled when Phono output is selected.

## **Technical specifications**

Last updated: October 29, 2021 09:49. Revision #2498

### Alva TT v2 Turntable

### TYPE

Static Balanced tonearm with Detachable Headhell

### **TURNTABLE SPEEDS**

33 1/3, 45 rpm

#### **MOTOR TORQUE**

1.6 kg/cm

### **WOW & FLUTTER**

<0.1%

#### **TURNTABLE PLATTER**

POM (Polyoxymethylene)

### **DIAMETER**

305 mm

#### **Tonearm**

#### **TYPE**

One-piece aluminium casting

#### **EFFECTIVE LENGTH**

221.5 mm

### **OVERHANG**

19 mm

#### **EFFECTIVE MASS**

19.6 g

### **Internal Phono Stage**

GAIN @ 1kHz

42dB

### **NOMINAL OUTPUT (WITH CA CARTRIDGE)**

250m Vrms

### **EQUIVALENT INPUT NOISE (A-WEIGHTED)**

0.1u Vrms

### RIAA CURVE ACCURACY

+/-0.3dB 30Hz-20kHz

# SIGNAL/NOISE RATIO (REF 1V OUT, 20-20K BW)

>90dB

### THD+N 1KHZ

0.0025%

### **INPUT IMPEDANCE**

47kΩ

### **INPUT CAPACITANCE**

100pF

### **Outputs**

### **AUDIO OUTPUT**

RCA phono/line level (switchable)

#### **BLUETOOTH**

SBC/aptX/aptX HD

#### General

### **POWER SUPPLY**

AC 100-240V, 60/50Hz

#### **POWER CONSUMPTION**

5.5W Approx., 20W max, <0.25W (Standby)

### **DIMENSIONS (W X H X D)**

435 x 139 x 368 mm

#### **WEIGHT**

10.9 kg

### Cartridge

#### TYPE

High Output Moving Coil

### **FREQUENCY RESPONSE**

+/- 1dB 30Hz-20kHz

#### **STYLUS**

Elliptical

### **CANTILEVER**

Aluminium

### **OUTPUT LEVEL**

2mV @ 1kHz

### TRACKING FORCE

2 g

### **RECOMMENDED LOAD**

47kΩ

### **Alva ST Turntable**

### TYPE

Belt Drive

### **TURNTABLE SPEEDS**

33 1/3, 45 rpm

#### **MOTOR TORQUE**

Belt Drive without Motor torque

### **WOW & FLUTTER**

<0.12%

#### **TURNTABLE PLATTER**

Aluminium Die-casting

### DIAMETER

305 mm

#### **Tonearm**

#### **TYPE**

Static Balanced tonearm with Detachable Headhell

#### **EFFECTIVE LENGTH**

221.5 mm

#### **OVERHANG**

19 mm

### **EFFECTIVE MASS**

19.8 g

### **Internal Phono Stage**

### GAIN @ 1kHz

42dB

### NOMINAL OUTPUT (WITH CA CARTRIDGE)

250m Vrms

### **EQUIVALENT INPUT NOISE (A-WEIGHTED)**

0.1u Vrms

### RIAA CURVE ACCURACY

+/-0.3dB 30Hz-20kHz

### SIGNAL/NOISE RATIO (REF 1V OUT, 20-20K BW)

>90dB

#### THD+N 1KHZ

0.0025%

### **INPUT IMPEDANCE**

47kΩ

### **INPUT CAPACITANCE**

100pF

### Outputs

### **AUDIO OUTPUT**

RCA phono/line level (switchable)

### **BLUETOOTH**

SBC/aptX/aptX HD

### General

### **POWER SUPPLY**

AC 100-240V, 60/50Hz

#### **POWER CONSUMPTION**

6W Approx., 20W max, <0.3W (Standby)

### **DIMENSIONS (W X H X D)**

435 x 139 x 366.7 mm

### WEIGHT

9 kg

### Cartridge

### **TYPE**

Moving Magnetic Cartridge

### **FREQUENCY RESPONSE**

+/- 0.5dB 30Hz-20kHz

#### **STYLUS**

Elliptical

### **CANTILEVER**

Alloy Tube

### **OUTPUT LEVEL**

1.8~3.6mV @ 1kHz

### TRACKING FORCE

2 g

### **RECOMMENDED LOAD**

47kΩ

### **Troubleshooting**

Last updated: October 25, 2021 01:38. Revision #2499

#### No sound through one or both channels

- Amplifier not switched on.
- Amplifier is muted.
- Incorrect input is selected.
- Bad connection with amplifier, connector plugs not fully pushed home.
- Stylus is not making a connection to the record.
- No connection to the loudspeakers.

#### Distorted or inconsistent sound

- Turntable is connected to the incorrect amplifier input.
- Please note: Do not connect the turntable to an external phono stage or phono input.
- Wrong RPM used for the record.
- Tracking force and/or anti-skate incorrectly adjusted.
- Condition of the record is poor.
- Stylus is not making a connection to the record.
- Stylus is damaged.
- Turntable is picking up excessive vibrations or is not level.

#### Stylus skips across the record

- Stylus guard has not been removed.
- Tracking force is too light Confirm that the tracking force is correct with the tonearm force gauge.
- Confirm that the Anti-Skating BIAS is set to "2".
- Turntable is picking up excessive vibrations or is not level.
- Condition of the record is poor.

### Turntable will not connect to a Bluetooth playback device

- Turntable and device are too far apart.
- Bluetooth device is not in pairing mode.
- Turntable is not in pairing mode.

#### Turntable is connecting to an incorrect Bluetooth playback device

- Disable/switch off all other Bluetooth devices.
- Clear all paired devices on the turntable.

#### Inconsistent sound through Bluetooth playback device

- Bluetooth signal is being blocked/interrupted.
- Turntable and device are too far apart.