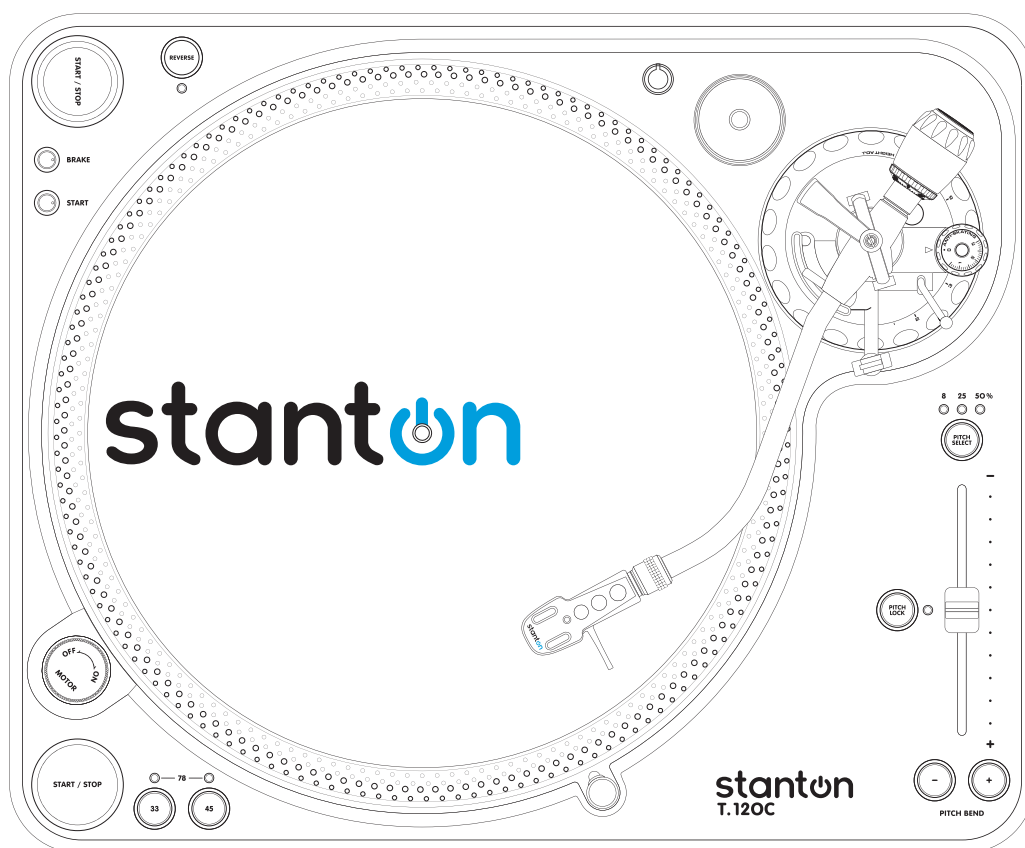


# FULL MANUAL

# OPERATING INSTRUCTIONS


## DIRECT DRIVE TURNTABLE



# T.120C

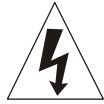
**WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

## IMPORTANT SAFETY INSTRUCTIONS

1. Read these Instructions – All the safety and operating instructions should be read before this product is operated.
2. Keep these Instructions – The safety and operating instructions should be retained for future reference.
3. Heed all Warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all Instructions – All operating and use instructions should be followed.
5. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
6. Carts and Stands – The appliance should be used only with a cart or stand that is recommended by the manufacturer.  
An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 
7. Wall or Ceiling Mounting – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
9. Power Sources – This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer the operating instructions.
10. Grounding or Polarization – This product may be equipped with a polarized alternation-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
11. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the cord in correspondence of plugs, convenience receptacles, and the point where they exit from the appliance.
12. Cleaning – The appliance should be cleaned only as recommended by the manufacturer. Clean by wiping with a cloth slightly damp with water. Avoid getting water inside the appliance.
13. For AC line powered units – Before returning repaired unit to user, use an ohm-meter to measure from both AC plug blades to all exposed metallic parts. The resistance should be more than 100,000 ohms.
14. Non-use Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
15. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
16. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - E. The appliance has been dropped, or the enclosure damaged.
17. Servicing – The user should not attempt any service to the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
18. Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is the manufacturer's instructions have been adhered to.
19. Attachments – do not use attachments not recommended by the product manufacturer as they may cause hazards.
20. Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

## IMPORTANT SAFETY INSTRUCTIONS

21. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
22. Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
23. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.



### CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:** To reduce the risk of electric shock, do not remove any cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with 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 electric shock.



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.

### CAUTION

To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

- 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 Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
- Unauthorized modification of this unit may cause it to no longer comply with FCC regulations and void your authority to use this device.
- Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## ASSEMBLY

Remove all the parts from the box. Please check to make sure the following items are included with the main unit in the carton:

- (1) Platter
- (2) Slip mat
- (3) Counterweight
- (4) 45-rpm adapter
- (5) Headshell
- (6) AC cord
- (7) RCA cable
- (8) Target light
- (9) Operating instructions
- (10) Cloth dust cover

## CONNECTIONS

- 1) Connect the power cord to an AC outlet.
- 2) Connect the RCA cable to the PHONO input of your mixer. You can also use a line input by setting the phono/line switch at the rear of the turntable to Line.

## STONE ARM AND CARTRIDGE SETTINGS

The major cause of problems in sound and skipping on the vinyl is the lack of proper set up of the needle and turntable adjustments. The needle is designed to operate at a specific angle to the vinyl. The T.120C has several adjustments to correctly position the needle to the vinyl.

### **The first adjustment is the correct installation of the cartridge.**

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. 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- |

Your cartridge is to be mounted into the headshell as per the mounting instructions included with the cartridge. The Stanton 500,680 and 890 series of cartridges require the use of the two screws mounting into the headshell. For your convenience, some of these products can be purchased already mounted and pre-adjusted from your local Stanton dealer. If you are using these 1/2" mounted products with a headshell in a mobile application or you are doing heavy scratching, you may want to use an extra shell weight. The Master series of products (Trackmaster, Groovemaster, etc.) are designed with their own mounting that eliminates the need for a separate headshell and the wiring to the cartridge. The body of the cartridge should be parallel with the centerline of the headshell-tone arm, when viewed from the front to the back.

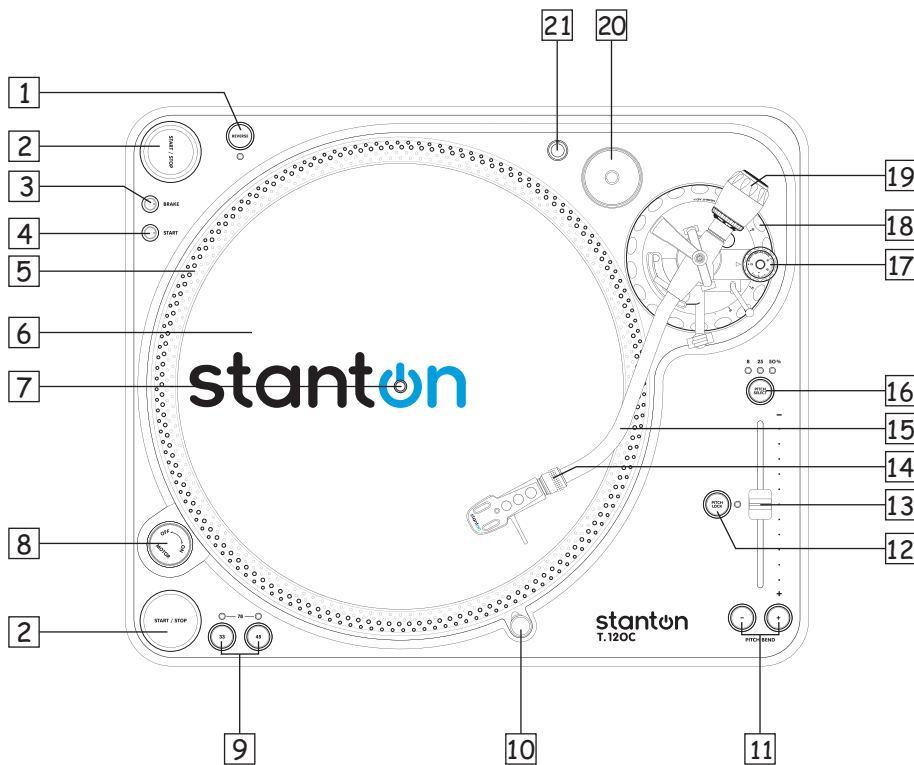
**The second adjustment is at the installation of the cartridge-head-shell assembly into the tone arm tube lock.** Holding the tone arm tube in one hand, insert the cartridge-head-shell into the tube lock with the other hand. Turn the lock ring clockwise (when viewed from the rear) until the headshell is locked tightly into the tone arm. Remove the needle protector from the cartridge and place the needle on record. View the needle from the front and insure that the needle is perpendicular to the record surface. If some adjustment is needed, simply loosen the lock ring and rotate the cartridge-head-shell until the needle is perpendicular to the record surface. Then re-tighten the lock ring.

## TONE ARM AND CARTRIDGE SETTINGS

**The third adjustment is the needle (or stylus) pressure.** Start with the cartridge-headshell assembly mounted into the tone arm. Remove any needle protectors provided. With tone arm free, adjust the tone arm counterweight by rotating the rear section until the tone arm floats in a balanced condition above the record or mat. Do not allow the needle to drop onto the mat or the turntable platter during this adjustment. You might damage the needle tip. Now, carefully hold the tone arm in one hand while rotating the numbered ring on the front of the counter-weight with the other hand to the "0" setting. Next, without touching the numbered ring, rotate the rear counterweight until the desired needle pressure reading is next to the line on top of the tone arm tube. See the instructions included with your cartridge for proper settings.

**The fourth and last adjustment is that of the tone arm height.** This will set the tone arm pivot and needle relation with the vinyl. Unlock the tone arm base located in the base of pivot assembly. Rotate the height adjust ring in the pivot base to read the correct setting for the height adjust ring in the pivot base to read the correct setting for the height of the cartridge that you are using. Check the cartridge/arm height table for the correct setting. Be certain to re-lock the pivot base when adjustment is completed.

## PART NAMES & FUNCTIONS



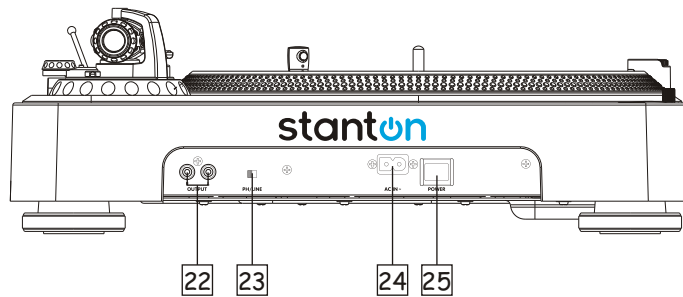
- 1) REVERSE  
This button is used to reverse the direction of the platter rotation.
- 2) START/STOP  
Press this button to start or stop the platter.
- 3) BRAKE  
The Brake time is adjustable from 0.2~6 sec.
- 4) START  
The start time is adjustable from 0.2~6 sec.

## PART NAMES & FUNCTIONS

- 5) STROBE DOTS  
The dots around the edge of the platter are used in conjunction with the light located inside the motor ON/OFF switch. While the platter is in rotation, the dots help to indicate the speed of rotation. The speed is lower than the displayed speed (33,45,78) when the dots are flowing to the right. It is higher than the displayed speed (33,45,78) when the dots are flowing to the left. When the strobe is stopped, the platter is rotating at the displayed speed.
- 6) SLIP MAT
- 7) CENTER SPINDLE
- 8) MOTOR ON/OFF SWITCH  
As opposed to fully analog turntables, this is not the power switch. This switch only turns on or off the motor. Rotate clockwise to turn on the motor. The platter will not start spinning until the start/stop button has been pressed. Rotate counter-clockwise during playback (off position) for a slow winding down effect.
- 9) PLATTER REVOLUTION SPEEDS (rpm)  
33 rpm – Press 33  
45 rpm – Press 45  
78 rpm – Press 33 and 45 buttons simultaneously.  
To return to 33 or 45-rpm play mode, just press the desired button.
- 10) TARGET LIGHT BASE  
Insert target light to the deck and it will light up.
- 11) PITCH BEND  
This pitch will increase/decrease by up to 6% while the pitch bend minus button is pressed.
- 12) PITCH LOCK  
The ON setting will allow use of the pitch adjust. When set of OFF, the pitch control will be locked at 0%.
- 13) PITCH SLIDER  
The pitch slider is used to speed up or slow down the turntable platter.
- 14) HEADSHELL LOCKING NUT  
Attach the headshell by inserting into the front end of the tone arm. Turn the locking nut clockwise with the head shell firmly held horizontally.
- 15) TONE ARM  
This is a fully manual tone arm. To start playback, gently place the stylus on the record using the headshell finger support. Do not drop the stylus onto the record as it may cause damage to the diamond tip and to the record.
- 16) PITCH SELECT  
Press the button to select among +/-8%, +/-25%, or +/-50% pitch range.
- 17) ANTI SKATE KNOB  
When a record is playing, a force is generated drawing the stylus towards the center of the record. Set this knob to the same value as the stylus pressure to offset this force.
- 18) TONE ARM BASE  
The tone arm base includes the height adjustment and tone arm rest. See "tone arm and cartridge settings" for proper adjustments.

## PART NAMES & FUNCTIONS

- 19) COUNTERWEIGHT  
Use this to balance the tone arm and to adjust the stylus pressure. See "tone arm and cartridge settings" for proper adjustments.
- 20) 45-RPM ADAPTOR HOLDER  
Place on the attached 45-rpm adaptor here. Push down the rear side of 45 rpm adaptor to take it.
- 21) EXTRA STYLUS HOLDER  
Place extra headshells here.



- 22) PHONO/LINE OUTPUT L & R  
This is the standard analog output (RCA jacks) which can be connected either to a phono or line input on any DJ mixer, depending on the setting of the phono / line selector.
- 23) PHONO/LINE SWITCH
- 24) POWER CORD CONNECTOR  
Used to connect the included power cord.
- 25) POWER SWITCH  
This switch turns the power on or off, including the motor and audio signal.

## SPECIFICATIONS

### APPLICATION:

This specification applies to the direct drive turntable unit T.120C

### STANDARD TEST CONDITION:

Ambient Temperature 20 +/- 2 degC

Relative Humidity 65% +/- 5%

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

### TURNTABLE SECTION:

|                 |   |
|-----------------|---|
| Type            | 3-speed full manual                                     |
| Motor           | 16pole, 3phase,brushless DC motor                       |
| Speeds          | 33 $\frac{1}{3}$ and 45rpm and 78rpm                    |
| Wow and Flutter | Less than 0.1% WRMS (JIS WTD) with 33 $\frac{1}{3}$ rpm |
| Pitch Controls  | +/- 8%, +/-25%, +/-50%                                  |
| Starting Torque | More than 4.5kgf.cm                                     |
| Starting Time   | 0.2~6 sec.(Adjustable)                                  |
| Braking Time    | 0.2~6 sec.(Adjustable)                                  |
| Braking System  | Electronic brake  |
| Pitch Bend      | +/-6%   |

## SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Time for Speed Change | Less than 0.2 sec. from 33 $\frac{1}{3}$ to 45 rpm.<br>Less than 0.2 sec. from 45 to 33 $\frac{1}{3}$ rpm.<br>Less than 0.5 sec. from 33 $\frac{1}{3}$ to 78 rpm |
| Audio Output          | Phono/Line output  |

### TONARM SECTION:

|                             |   |
|-----------------------------|---|
| Type                        | Static balanced S shaped tone arm with detachable headshell |
| Effective Arm Length        | 230mm   |
| Tracking Error Angle        | Less than 3 degree  |
| Applicable Cartridge Weight | 13~18g  |
| Anti-skating Range          | 0~3g  |
| High of Cue (First Track)   | 7.5~10 mm   |
| Descend of Cue              | 1~3 sec.  |

### AUDIO SECTION:

|                           |                               |
|---------------------------|-------------------------------|
| Preamp Frequency Response | +/-1dB 20Hz-20KHz/RIAA filter |
| Preamp Distortion         | Less than 0.02% at 1KHz       |
| Preamp Noise Floor        | <-75dBv                       |

### GENERAL SECTION:

|                   |   |
|-------------------|---|
| Power Supply      | AC 100V, 50/60Hz (For Japan)<br>AC 110V, 60Hz (For Taiwan)<br>AC 120V, 60Hz (For U.S.A.,Canada,Mexico)<br>AC 220V, 50Hz (For United Arab Emirates,Chile,Argentina)<br>AC 220V, 60Hz (For Philippines)<br>AC 230V, 50Hz (For Europe,New Zealand,South Africa,Singapore,Israel)<br>AC 240V, 50Hz (For Australia,U.K.) |
| Power Consumption | 12 Watts  |
| Dimensions        | 452 (W) x 370 (D) x 86 (H) mm   |
| Weight            | 11.2 Kgs  |



# Stanton Magnetics, Inc. – Warranty Provision – Returns for Repairs or Replacement

## WARRANTY

Through Stanton's authorized dealers around the World, Stanton, or one of Stanton's authorized distributors outside the U.S., will, without charge, repair or replace, at the sole discretion of the entity responsible for making the repair or providing the replacement, any Stanton merchandise proved defective in material or workmanship for a period of one (1) year following the date of original purchase. Exceptions to this warranty are as noted below:

The warranty for mechanical parts which are subject to wear and tear are limited to the earlier to occur of thirty (30) days following the date of original purchase or the following number of cycles: Faders - 15,000; Rotary potentiometers - 10,000; and Switches - 10,000.

Stanton will warrant all replacement parts and repairs for ninety (90) days from the date of original shipment. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

## RETURNS

Authorized Stanton dealers are only authorized to sell and distribute merchandise within a specific country. All goods requiring warranty repair or replacement must be returned (freight prepaid if not hand-delivered) to the authorized Stanton dealer from whom the merchandise was purchased and in the same country where the merchandise was purchased. For purposes of purchases made via the Internet, the merchandise must be returned to the authorized Stanton dealer in the country where the authorized Stanton dealer which sold the merchandise to purchaser is located and not the authorized Stanton dealer in the country where the purchaser is located or the country in which the merchandise was received. Any returns to a non-authorized dealer or to an authorized Stanton dealer not in the same country as the merchandise was intended to be sold or as set forth above will void this warranty.

To initiate a warranty repair, you must contact the authorized Stanton dealer from whom you purchased the merchandise, and follow such authorized Stanton dealer's return policy.

Stanton assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the merchandise. Stanton's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party, or product liability, and relating to the merchandise shall not exceed the price received by Stanton from your purchase of such merchandise. In no event will Stanton be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Stanton or otherwise. To the extent permitted by law and except as otherwise provided above, Stanton disclaims any express or implied warranties of merchantability or fitness for a particular purpose.

The above warranty provides you with specific legal rights. You may also have additional rights, which are subject to variation from state to state and country to country.

If there is a dispute regarding the warranty of merchandise that does not fall under the warranty conditions stated above, please include a written explanation with the merchandise when returned pursuant to the terms and conditions set forth herein.

Please register your product online at [www.stantondj.com](http://www.stantondj.com) or mail your completed warranty card to:

Stanton Magnetics, Inc, 3000 SW 42 St. Hollywood, Florida 33312.

## STANTON WARRANTY REGISTRATION CARD

If you have internet access, please register your product at [www.stantondj.com](http://www.stantondj.com). Otherwise, return this card completely filled out in order to validate your warranty.

### PERSONAL INFO

\_\_\_\_\_  
**Name**

\_\_\_\_\_  
**Address**

\_\_\_\_\_  
**City**                      **State**   **Zip**

\_\_\_\_\_  
**Country**

\_\_\_\_\_  
**Telephone**

### PRODUCT INFO

\_\_\_\_\_  
**Model Number**

\_\_\_\_\_  
**Serial Number**

\_\_\_\_\_  
**Date of Purchase**

\_\_\_\_\_  
**Where did you buy this product?**

cut along dotted line

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**PLACE  
STAMP  
HERE**

**Stanton Magnetics, Inc.  
3000 SW 42nd Street  
Hollywood, FL 33312  
U.S.A.**

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