

Stanton's New 881S Cartridge is the Professional Calibration Standard

Stanton's 881S Professional Calibration Standard represents the first in the development of a whole *new* generation of magnetic stereo cartridges.

Its whole design concept is based on producing a cartridge which would have the highest possible ability to protect records.

This requires a brand new tip shape...the 881S has it...it is the Stereohedron.[®]

This demands a brand new magnet...the 881S has it...a magnet of a rare earth element, which, because of its enormous power, is far smaller than ordinary magnets. It also is positioned closer to the center of rotation for low inertia.

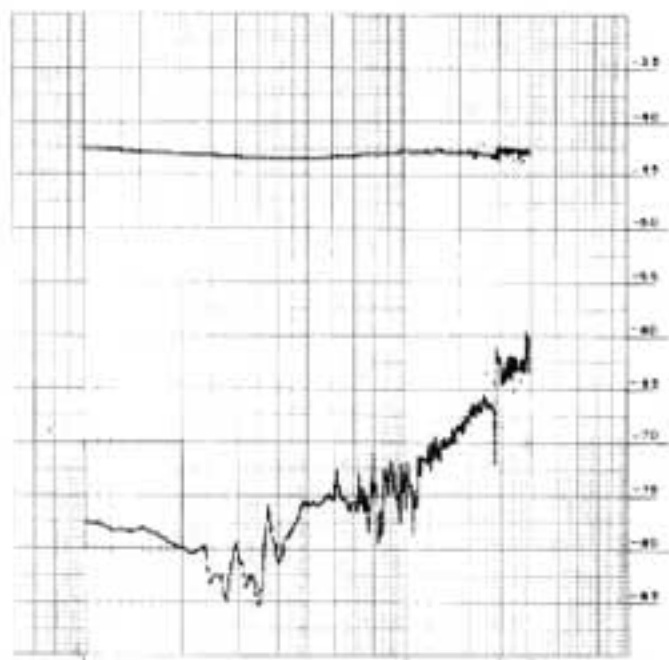
This requires a brand new construction principle...the 881S has it...in this instance, it's an improved patented suspension. This new construction principle plus all the features mentioned earlier produce a cartridge whose performance is beyond compare.

The Calibration Concept was an outgrowth of the needs of the recording industry...for a cartridge of sufficient sophistication to be used as a primary Calibration Standard in system checkouts for linearity and equalization.

Stanton succeeded in producing such a cartridge as is evidenced by the almost universal acceptance of Calibration Standard cartridges by engineers, music critics and musicians. Today, Stanton has developed the *Professional Calibration Standard*, the 881S, which supersedes all previous Calibrated cartridges in terms of overall excellence.

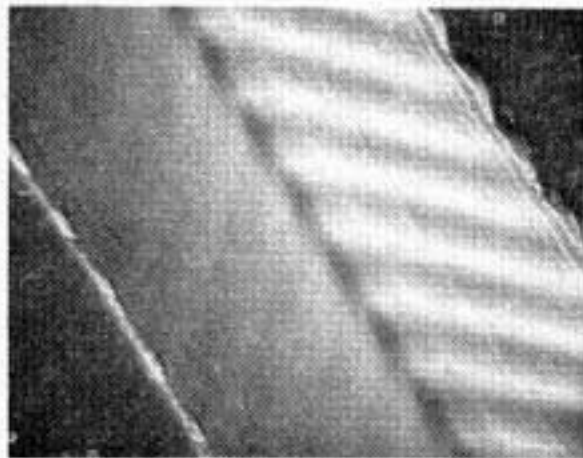
Installation of the 881S is simple...follow these instructions carefully and check with those of the record player manufacturer. For your convenience a miniature screwdriver is provided, along with a metal container for extra styli. You'll find too, that after removing the molded platform, the handsome plastic case becomes a handy container for your record playing accessories, such as 45 rpm spindle discs, lubricants, etc. or you can even use it as a cigarette or jewelry box.

Every 881S is guaranteed to meet the specifications within exacting limits and it comes to you with the most meaningful warranty possible...individual Calibration test results are packed with your unit.

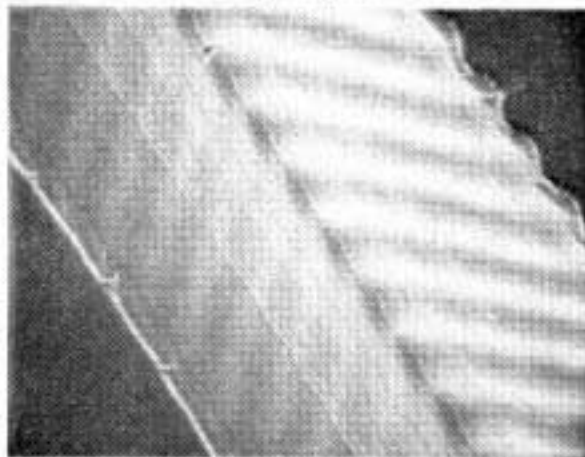


**Here is a typical
response and
separation curve
of an 881S done on
a Stanton
Real Time Analyzer**

Record never played*



Record played 200X*



**Reduced 36%*

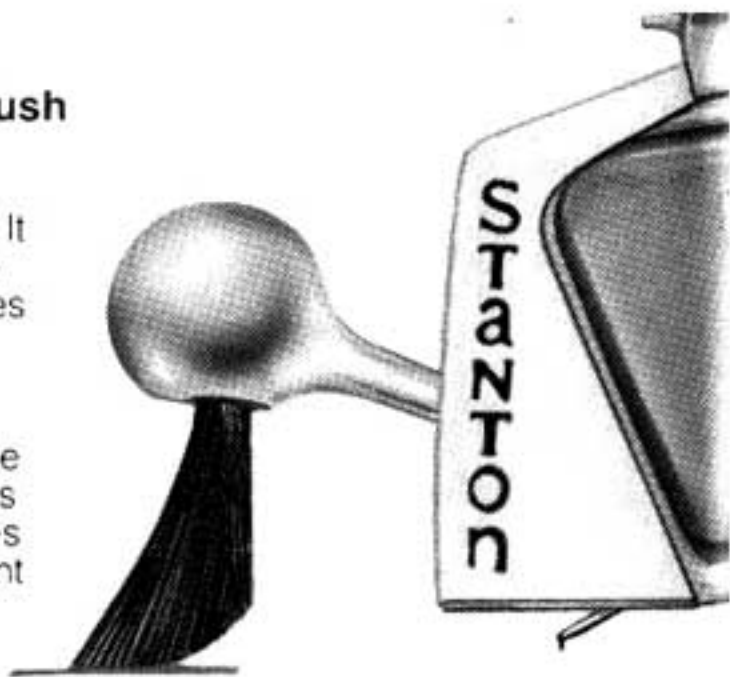
Here are Scanning Electron Beam Microscope shots taken in Stanton's own Engineering Laboratory at 1200 times magnification.

On the left a record groove that has never been played.

On the right a record groove that has been played 200 times with a Stanton 881S with Stereohedron[®] Stylus tip. There is no discernible wear in the groove.

The Stanton "Longhair"® Brush

The Stanton longhair brush is a decided asset on your cartridge. It operates on the principle that the rubbing action of the nylon bristles against the vinyl record groove surface creates an electrostatic charge which attracts the dust particles like a vacuum cleaner. The brush is hinged directly to the stylus assembly and it cleans the grooves automatically while its independent action never interferes with the tracking force.



Specifications for the 881S

Stylus Type: Nude Stereohedron
Tip Dimensions:

Contact Radii: .0028" (71 μ)
Scanning Radii: .0003" (8 μ)

Stylus Tracking Force:¹ 1 gram \pm ¼
Setting with Brush:² 2 \pm ¼

Resulting operational tracking: 1 \pm ¼
Frequency

Response:³ 4 10 Hz to 25 kHz
Output: 4.9 Millivolts with reference

to 5.5 cm/s recorded velocity
Channel Balance: Within 1 dB @ 1 kHz

Channel Separation: 35 dB @ 1 kHz
Cartridge D.C. Resistance: 900 ohms

Cartridge Inductance: 510 mH
Cartridge Color: Silver

Cartridge Weight:^{*} 5.7 grams
Load Resistance: 47K ohms

Load Capacitance: 275 pF.
including arm leads cables and amplifier

^{*} Brush Weight (self-supporting): 1 gram

NOTES:

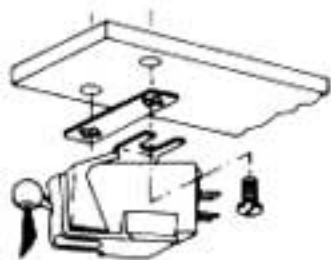
1. Recommended for optimum performance.
2. Set anti-skating to same number as tracking force setting.
3. When the cartridge is terminated in the recommended load of 47K ohms and 275 pF
4. Low frequency response controlled by arm resonance.

CARTRIDGE MOUNTING WITH SCREWS

Select from the hardware kit the two screws and the plastic screwholder you will need to mount the cartridge. Check the record player manufacturer's instructions to help you in your selection. The kit with this cartridge contains the following:

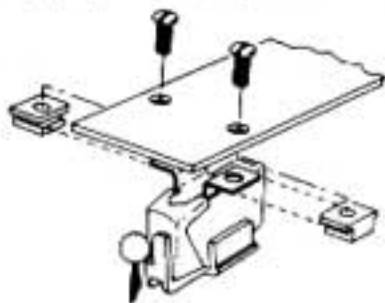
- a. 2 short black screws (#4-48 x 3/16")
- b. 2 short brass screws (#3-48 x 3/16")
- c. 2 small chrome screws (#2-56 x 1/4")
- d. Two different plastic screw holders
BLUE and BLACK (Pair)

If the tone arm requires the cartridge to be mounted by *screws from underneath*, screwing into threaded holes in the tone arm, then use the BLUE plastic piece. You will probably need to use the 3-48 brass screws. However, in some special cases, you may need the 4-48 screws (black):



Choose the BLUE piece in tone arm heads requiring no spacing between cartridge bracket and mounting surface. Simply insert the required screws into holes in the plastic with the cartridge bracket between screw heads and plastic. This allows easy holding and positioning of screws while tightening.

If your tone arm requires cartridges to be mounted by screws from the top, use the two (2) BLACK pieces and the 2-56 chrome screws:



Simply slip the pieces onto the wings of the cartridge and insert the screws from above the tone arm head. The screws will form their own threads in the plastic so that no nuts are necessary.

When tightening the screws, never tighten one all the way with the other still loose. Always alternate a few turns at a time as the cartridge begins to tighten into position. Before the cartridge is finally tight-

ened, check the turntable manufacturer's instructions to insure the cartridge is in the correct position.

STEREO CONNECTIONS

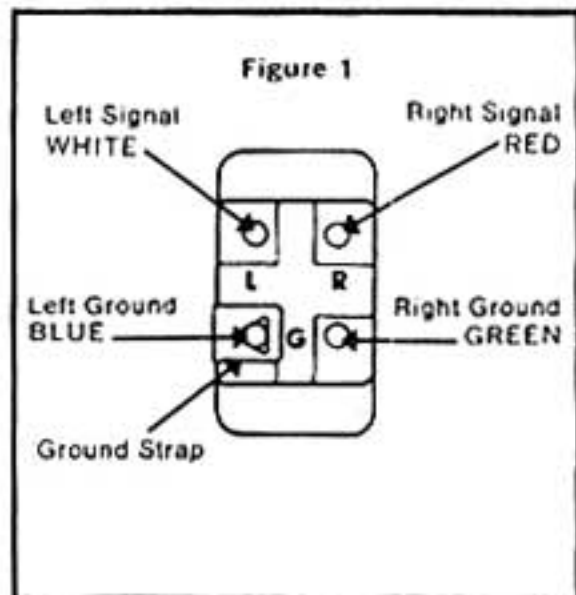
1. Your turntable arm or head has four lead wires with terminal clips for normal stereo connection. Check the manufacturer's instruction for matching these leads with cartridge terminal pins in Figure 1

NOTE:

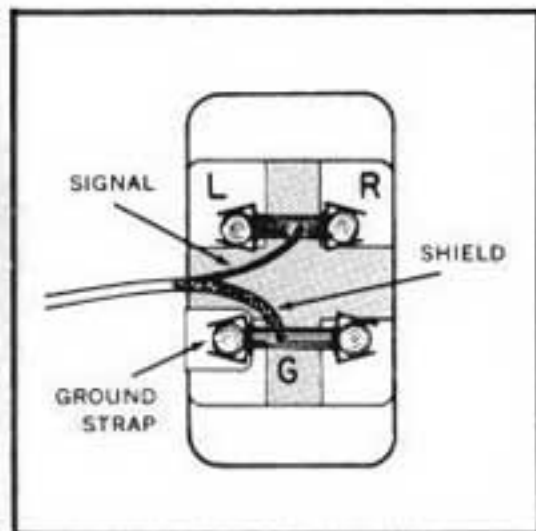
a. Use your terminal clips in connecting lead wires to cartridge pins — **Do Not** use solder on cartridge pins.

b. For plastic tone arm heads leave the ground strap as is. In metallic tone arm heads remove the ground strap when hum is encountered.

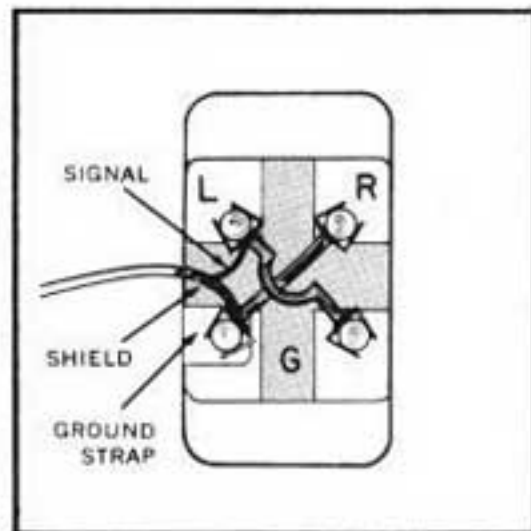
c. Ground your turntable mechanism with a separate wire to a suitable ground point.



MONOPHONIC LATERAL CONNECTIONS



MONOPHONIC VERTICAL CONNECTIONS



STYLUS PROTECTIVE COVER

Your Stanton 881S is supplied with a protective cover over the stylus. To remove, pull gently down on the two side ears. The stylus cover can be replaced, when desired, by placing the front lip over the stylus guard and pressing the ears gently onto the cartridge body.



ARM SETTING

Balance the tonearm and mounted cartridge according to turntable manufacturer's instructions. At balance brush and stylus tip should just clear the record.

ARM SETTING WITH BRUSH	2 grams \pm ¼
RESULTING TRACKING FORCE	1 gram \pm ¼
ARM SETTING WITHOUT BRUSH	1 gram \pm ¼

REMEMBER

1. The weight of the brush requires the setting of an extra gram, although the actual stylus force on the record is one gram less than the setting.
2. Additional skating force produced by the brush should be compensated for by increasing the anti-skating force setting to the same number as the tracking force setting.

**881S Professional Calibration Standard
Replacement Styli
Equipped with "Longhair"[®] Brush**

	Model	Tracking Force
Replacement Stylus	D81	$\frac{3}{4}$ - $1\frac{1}{4}$ grams

881S Accessory Styli

Accessory Stylus for Monophonic L.P. Records	D810	2 - 5 grams
Accessory Stylus for 78 R.P.M. Records	D827	3 - 7 grams

FULL ONE YEAR WARRANTY

Stanton Magnetics, Inc. of Terminal Drive, Plainview, New York 11803, hereby warrants to the owner of this cartridge that the cartridge and stylus originally purchased in the United States with this warranty shall be free from defects in material and workmanship for a period of one year from the date of original purchase. Proof of date of original purchase must be retained by you. In the event of any defect covered by this warranty, the cartridge should be carefully packed and sent prepaid with proof of date of original purchase to Stanton Magnetics, Inc. at the above address and the cartridge will then be repaired or replaced without charge and promptly returned to you prepaid. If it cannot be repaired or replaced in a reasonable period of time, you may elect to receive a product of equal value, or a refund.

Consequential damages are excluded from this warranty. The warranty shall not extend to stylus wear nor to damage resulting from abuse or misuse of the cartridge or stylus.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

The warranty applies to products purchased by the consumer in the United States.

The STANTON 881S series cartridge is covered by the following U.S. Patents 3,964,751, 3,572,725, as well as corresponding patents or pending applications in the leading industrial nations throughout the world.

All Stanton Micro-FLUXVALVE™ cartridges are equipped with patented replaceable V-GUARD™ stylus assembly. MICRO-FLUX-VALVE™ is a trademark of Stanton Magnetics, Inc.

Note: A Stanton 'pill box' is included in this package for your storage of extra styli.



STANTON MAGNETICS, INC.
Terminal Drive, Plainview, N.Y. 11803

8881-9360-03

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Printed U.S.A.