

ULTRA GROUP-SPECIAL EDITION

Model	Output (1 kHz at 5 cm/sec peak recorded velocity)	Frequency Response	Channel Balance	Channel Separation	Tip Tracking Force*	Total Tone Arm Force**	Trackability (cm/sec peak recorded velocity)
VST III, 5x38 μ (.0002 x .0015 in.) Hyperelliptical Nude tip, MICROWALL/Be™ Beryllium Shank Replacement Stylus: VNSE3HE	3.0 mV	20 to 20,000 Hz	Within 2 dB	25 dB at 1 kHz 13 dB at 10 kHz	1.25 grams Optimum	1.75 grams	400 Hz--26 cm/sec 10 kHz--56 cm/sec at 1.25 grams

*Do not exceed indicated tip tracking force or total tone arm force.

**See section on tracking force.

Optimum Load: 47,000 Ohms resistance in parallel with 200 to 300 picofarads capacitance per channel. Load resistance can be up to 70,000 ohms with almost no audible change in frequency response. Total capacitance includes both tone arm wiring and amplifier input circuit.

Net Weight: 6.6 grams.

THIS CARTRIDGE INCLUDES THESE SHURE EXCLUSIVE FEATURES

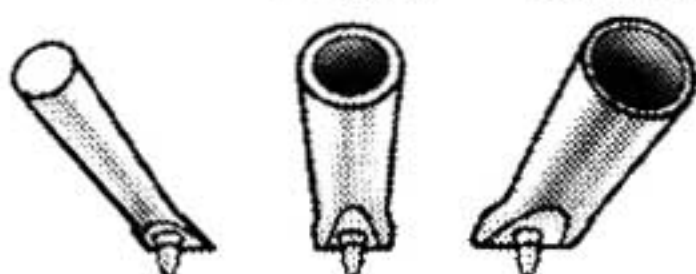
MICROWALL/Be™ BERYLLIUM STYLUS SHANK

Shure has developed a unique process for forming an ultra-thin 0.0005-inch wall, beryllium tube, resulting in the lowest effective mass of any stylus shank and highest ratio of stiffness to effective mass ever. This ratio is an index of the ultimate contribution to performance of the stylus shank; the higher the ratio, the better the performance.

A material can be fabricated with different geometries to yield lesser or greater performance benefits. The unique Shure stylus construction is called MICROWALL/Be. While materials may have high stiffness and/or low effective mass, until Shure developed the MICROWALL/Be process, it was not possible to take full advantage of the properties of beryllium that provide superlative high-frequency trackability.

Cross Sections of Beryllium Stylus Shanks

Solid Rod (10 mil diameter) Thick Wall Tube (12 mil diameter, 2 mil wall) MICROWALL/Be (18 mil diameter, 0.5 mil wall)



1.00 SPR* 2.06 SPR* 6.25 SPR*

*SPR: Stiffness/density relative to a 10 mil diameter solid rod.

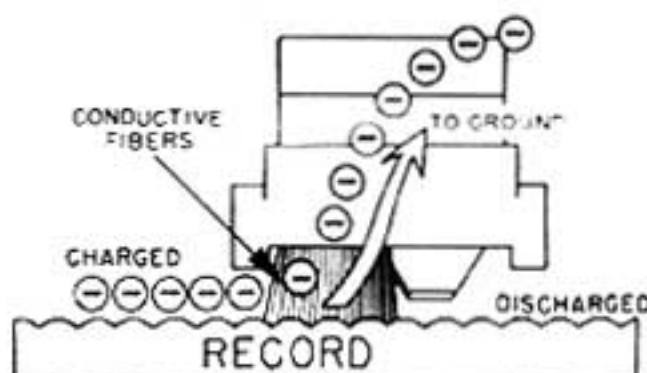
HYPERELLIPTICAL NUDE DIAMOND TIP

Its optimized contact area is longer and narrower than the traditional biradial (elliptical) tip-groove contact area. This optimization results in dramatic reduction of both harmonic distortion and intermodulation distortion.

DYNAMIC STABILIZER

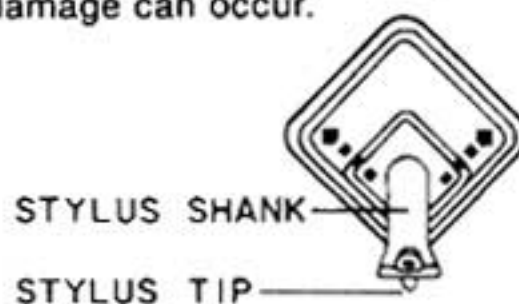
Viscous-damping functions like a shock absorber to resist sudden changes in motion, enabling the tone arm to follow the irregularities of a warped record surface. Record warps can cause sudden and rapid changes in arm-to-record distance that produce drastic increases and decreases in tracking force and tracking angle. The results can be signal wow, groove skipping, cartridge bottoming, or even amplifier or speaker overload. The Dynamic Stabilizer remedies warp effects by maintaining a constant distance from the arm to the record surface. The cartridge achieves its full potential trackability despite warped records.

Conductive fibers neutralize static charges on the record surface and conduct them to ground. The fibers also sweep the record groove clean of dust and dirt in front of the stylus tip. And the entire Stabilizer absorbs impact to prevent record or stylus damage if the arm is accidentally dropped on a record.



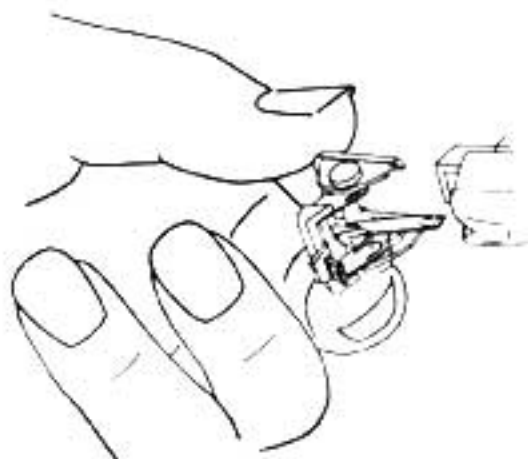
SIDE-GUARD STYLUS PROTECTION SYSTEM

The SIDE-GUARD responds to accidental side thrusts on the stylus by withdrawing the entire shank and tip safely into the stylus housing before damage can occur.

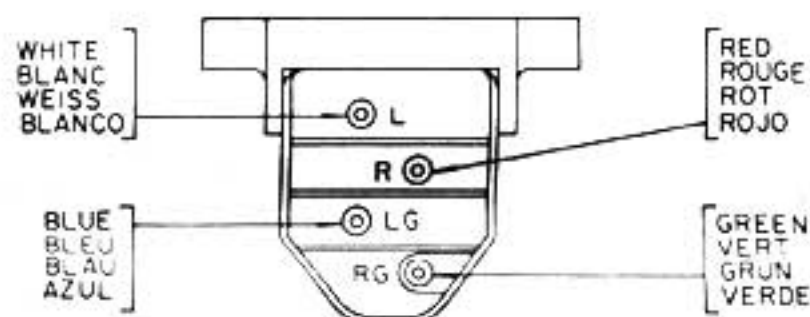


MOUNTING, MONTAGE, MONTAJE

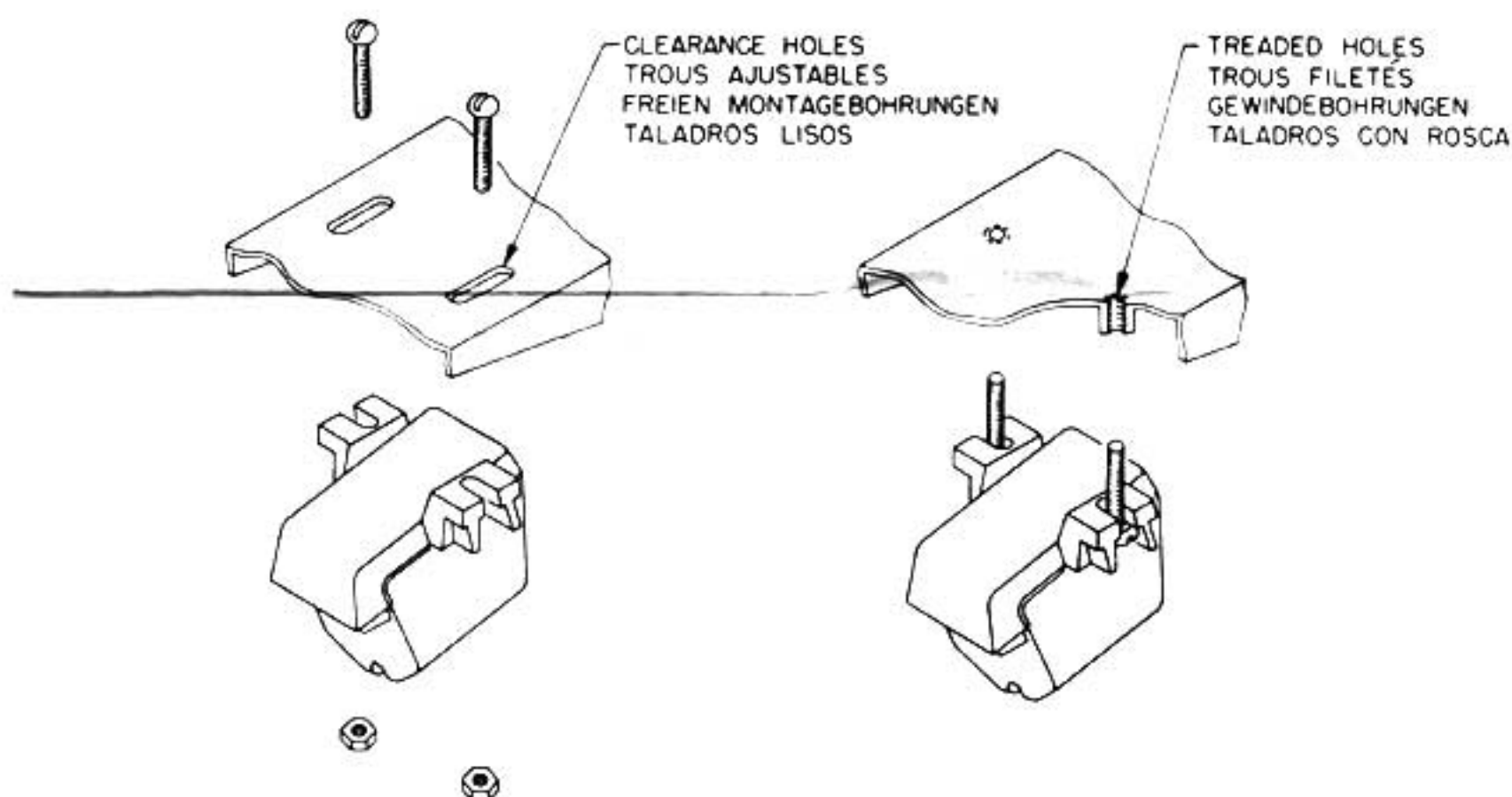
- 1** Remove Stylus.
Retirez l'équipage mobile avec la pointe diamant.
System-Einschub und Klappvisier (Nadelschutz) vom System abziehen.
Extraer la aguja tirando de ella con cuidado.



- 2** Make electrical connections.
Enfilez les cosses sur la cellule.
System mit Anschlüssen des Tonarms verbinden.
Conectar los cables a la cápsula.



- 3** Mount cartridge in threaded or unthreaded shell.
Alignez la cellule dans la coquille et resserez les vis de fixation.
System nach den Herstellerangaben des Plattenspielers montieren.
Alinear los hoyos de montaje.



- 4** Replace stylus.
Remplacez l'équipage mobile.
System-Einschub und Visier befestigen.
Reemplazar la aguja.

TRACKING FORCE

This cartridge is designed for a stylus tip tracking force of 1.25 grams optimum. When the viscous-damped Dynamic Stabilizer is in the "operating" position, it exerts a force on the record of 0.5 grams.

The 0.5-gram Stabilizer force must also be accommodated in the total tone arm tracking force setting. Therefore, use the following settings:

To obtain this force at the stylus

Optimum 1.25 grams

Set the arm tracking force adjustment to

1.75 grams

When using an external gauge such as the Shure SFG-2 Stylus Force Gauge for setting tracking force, lock the Dynamic Stabilizer in the "up" position, and set the tracking force as shown in the second column. When the Stabilizer rides on the record with the cartridge in use, the extra 0.5 grams will be offset by the Stabilizer and WILL NOT APPEAR AT THE STYLUS TIP. The tip force will be that shown in the first column.

If for any reason the cartridge is used with the Stabilizer in the "up" position, the tracking force should be set as recommended for the tip, i.e., 1.25 grams.

SKATING COMPENSATION

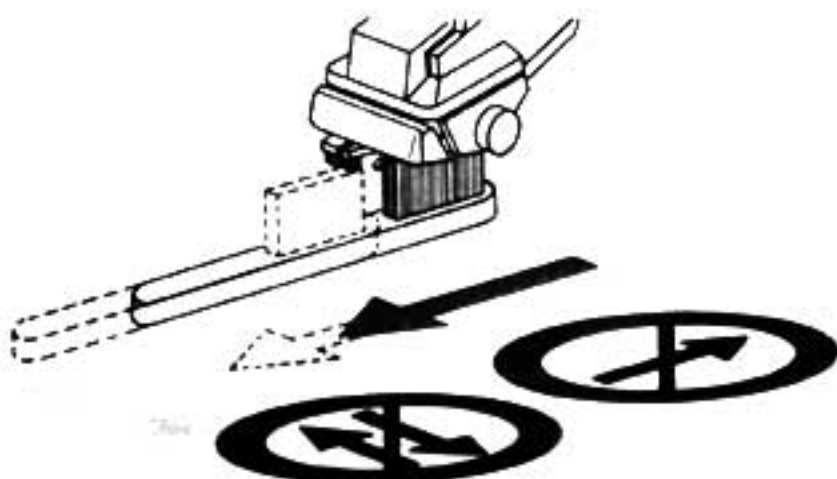
Set the skating compensation mechanism according to the tone arm manufacturer's instructions. Use a skating compensation corresponding to the total tone arm tracking force setting (column 2 in chart above.)

STABILIZER AND STYLUS CLEANING

To clean the Stabilizer, use no fluids. Use a soft brush.

To clean the stylus, use a soft brush with alcohol or an alcohol-distilled water solution.

Brush only from back to front as shown. Commercial cleaning solutions may cause stylus damage.



FULL ONE-YEAR WARRANTY

Shure Brothers Incorporated ("Shure"), 222 Hartrey Avenue, Evanston, Illinois 60202-3696, warrants to the owner of this product that it will be free, in normal use, of any defects in workmanship and materials for a period of one year from date of purchase. You should retain proof of date of purchase. Shure is not liable for any consequential damages. If this Shure product has any defects as described above, carefully repack the unit, have it insured, and return it prepaid to:

Shure Brothers Incorporated
Attention: Service Department
222 Hartrey Avenue
Evanston, Illinois 60202-3696

If you are not in the United States, return the unit to your dealer or Authorized Service Center for repair. The unit will be repaired or replaced and returned to you promptly, and if it cannot be repaired or replaced, you may elect to receive a refund. This warranty does not include stylus wear.

PATENT NOTICE: Manufactured under one or more of the following U.S. Patents: 3,463,889; 4,194,744; 4,270,758; 4,275,888; D230,741; D230,995; D235,070; D235,351; D235,352; D235,658; D235,661; D245,022; D245,433; D252,628; D254,004; D257,676; D255,898; D258,586; D274,810; D274,811; D274,812; D274,813; other patents pending.

FORCE D'APPUI:

Cette cellule est conçue pour une force d'appui optimum de 1.25 grammes. Lorsque le stabilisateur dynamique à amortissement visqueux se trouve en position de marche, il exerce sur le disque une pression de 0,5g dont il faut tenir compte lorsque l'on règle la pression totale exercée par le bras de lecture. Employer les réglages suivants:

pour obtenir à la pointe la
force indiquée ci-dessous
Optimum 1,25g

régler la force d'appui du bras
sur la valeur suivante
1,75g

Lorsque l'on utilise un pèse-bras pour régler la force d'appui (Shure SFG-2, par exemple), bloquer le stabilisateur dynamique dans sa position supérieure et régler la force d'appui d'après la valeur de la colonne de droite. (Lorsque le stabilisateur dynamique touche le disque avec la cellule en place, il absorbe les 0,5g supplémentaires si bien que ceux-ci n'apparaissent pas à la pointe. La force à la pointe est alors celle qui est indiquée dans la première colonne.)

COMPENSATION DE POUSSÉE LATÉRALE : Suivez les instructions du fabricant du bras de lecture et utilisez une force d'antiskating correspondant à la force d'appui totale du bras (colonne nr 2 du tableau ci-dessus).

NETTOYAGE DU STABILISATEUR DYNAMIQUE: Utiliser une brosse douce avec la cellule SANS EMPLOYER DE LIQUIDE.

NETTOYAGE DE LA POINTE DE LECTURE: Utiliser une brosse douce, humectée d'alcool pur ou dilué. Les liquides de nettoyage vendus dans le commerce peuvent endommager ou corroder la pointe. Il faut toujours brosser de l'arrière vers l'avant, jamais de l'avant vers l'arrière ou d'un côté à l'autre.

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