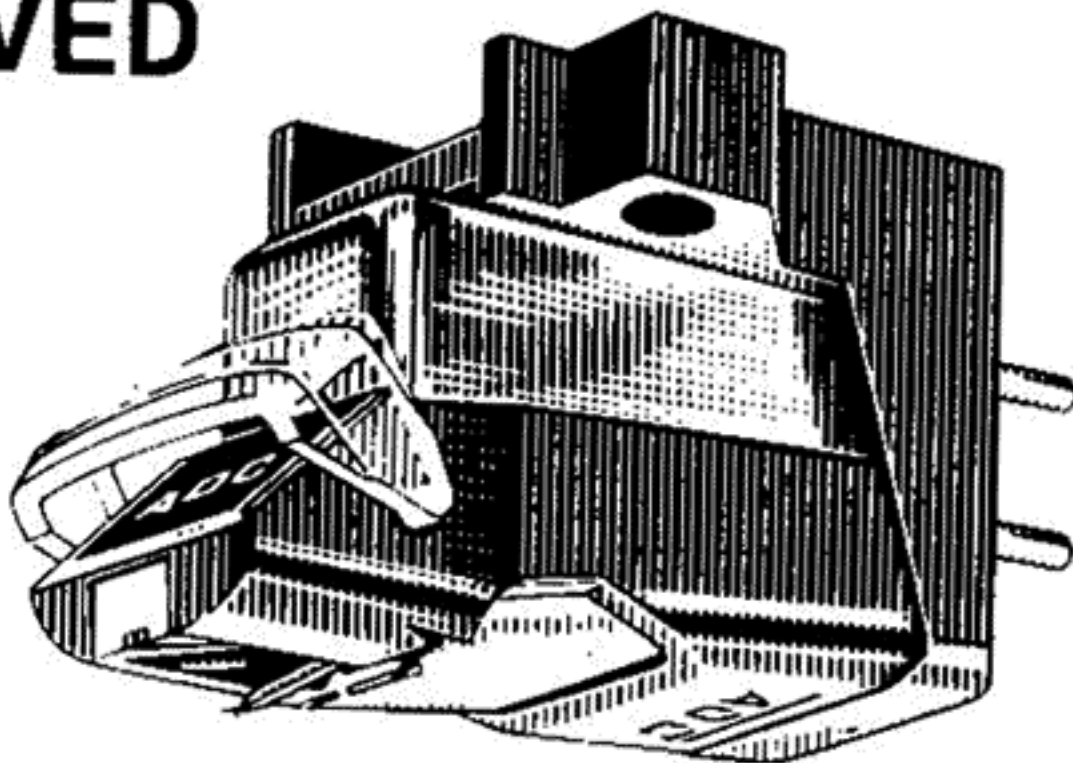


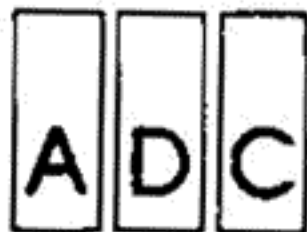
XLM

MK II IMPROVED

OMNI-PIVOT
INDUCED MAGNET
STEREO CARTRIDGE
DIASA ELLIPTICAL STYLUS

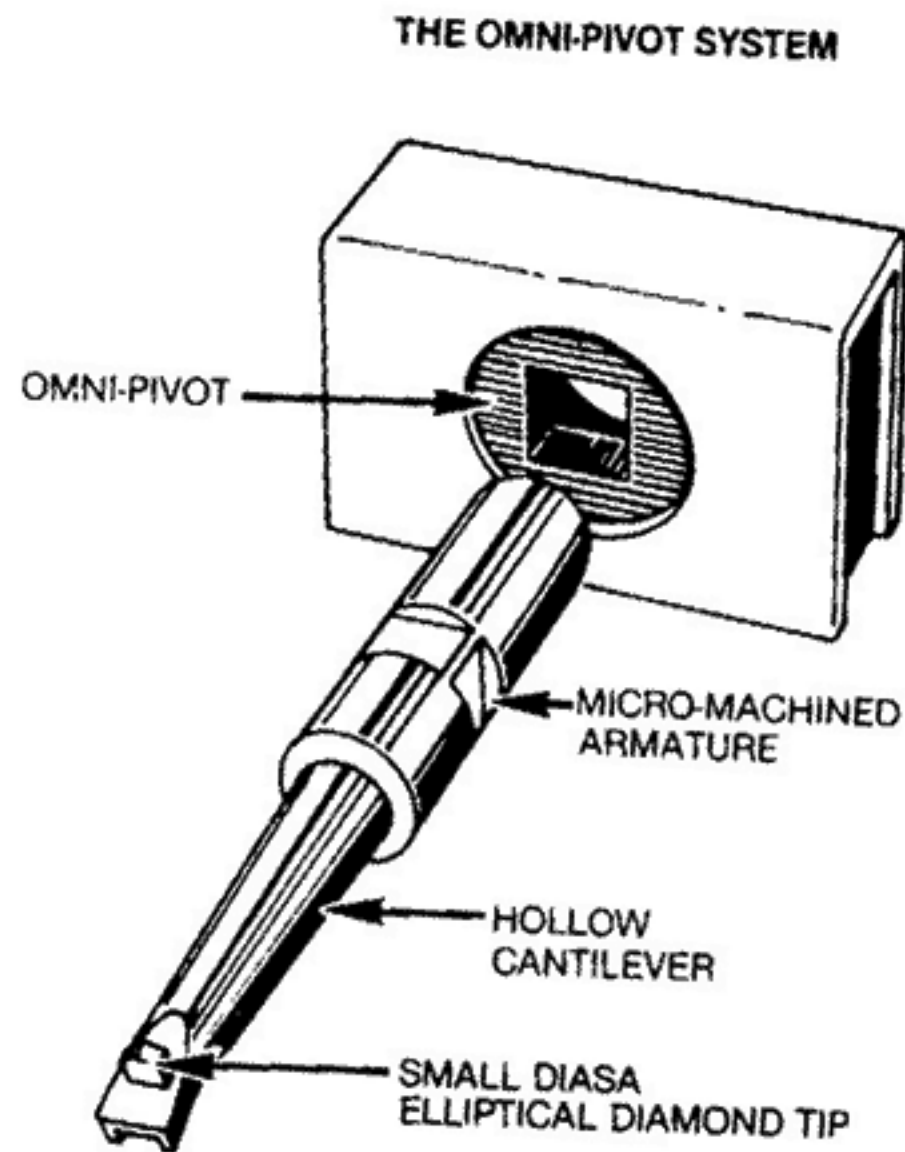


OWNER MANUAL



Audio Dynamics

This cartridge is designed with a new omni-pivot. Critical tolerances are held to within $\frac{1}{4}$ the thickness of a human hair, allowing precision assembly plus repeatability of a new order in stereo phono cartridges. The omni-pivot system is assembled without the use of unpredictable adhesives, further assuring the accuracy of specifications and consistency from cartridge to cartridge. The precise locating of the new micro-machined armature in the omni-pivot means superb separation at all frequencies and unrestrained tracking.



THE STYLUS ASSEMBLY

The high-frequency performance of a stereo phono cartridge is controlled to a great extent by the effective tip mass of the stylus cantilever assembly.

The XLM MK II IMPROVED uses a hollowed cantilever fitted with the small-shank diasa-diamond stylus. This new low mass stone is ground to true elliptical shape with a scanning radius of 0.0003", allowing accurate tracing of all stereo record grooves. The bearing radius of 0.0007" supports the 1.2-gram recommended stylus force, providing optimum reproduction along with preservation of your record collection in a "mint" condition. Your XLM MK II IMPROVED has had all specifications tested at the factory at the specified ver-

tical tracking force, further assuring unparalleled consistency.

Four major factors that contribute to record wear are: (1) stylus force, (2) effective tip mass, (3) stylus tip shape and (4) polish. All of these factors have been carefully analyzed and optimized by ADC engineers, followed by painstaking evaluations by the quality control department, assuring you of the finest quality components throughout.

Note: The Diosa tip is a diamond bonded to sapphire. Instead of the usual aluminum bushing to hold the diamond, the diamond tip is bonded to a sapphire base synthesizing a nude jewel mounting with very low mass.

SPECIFICATIONS

Diamond Tip	Diasa Elliptical 0.0003" x 0.0007"
Tracking force	1.2 gram \pm 0.3 gram
Frequency response**	15Hz to 24kHz \pm 2dB
*Output	6.05 mV per 5.5 cm/S 1.1 mV per cm/S
*Output balance	2dB max. diff.
*Channel separation	26dB at 1kHz 15dB at 10kHz
Inductance	580 mH
Resistance	820 ohms
Load resistance	47,000 ohms
Load capacitance	275 pF
Cartridge weight	5.75 grams

* As measured on ADC-3 test record (RCA).

** As measured on JVC TRS-1005 test record.

All measurements are made with an ADC LMF-1 tone arm tracking at 1.2 gram.

CARTRIDGE INSTALLATION

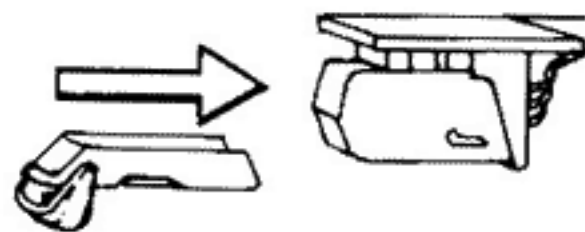
The cartridge is mounted using #3-48 screws and nuts. All ADC induced magnet cartridges are designed with standard 1/2" mounting centers. When adjustments are made to the mounting of the cartridge, the transparent snap down stylus protector should be lowered to guard the stylus assembly from accidental damage. The mounting screws holding the cartridge in place should be gently tightened and occasionally checked, since a loosely-mounted cartridge causes undesirable resonances.

INSTALLATION INSTRUCTIONS

STYLUS INSTALLATION

The stylus assembly will lock into proper position when slid onto the cartridge body in the manner illustrated. Careful alignment during stylus installation is recommended for your precision ADC cartridge assembly.

- 1.) Making sure that the stylus protector is down, begin to slide the stylus assembly onto the cartridge body.



- 2.) Place your thumb on the bottom of the stylus assembly and your index finger on top of the headshell, and slide the stylus assembly completely onto the cartridge body (with your thumb toward the rear of the cartridge).



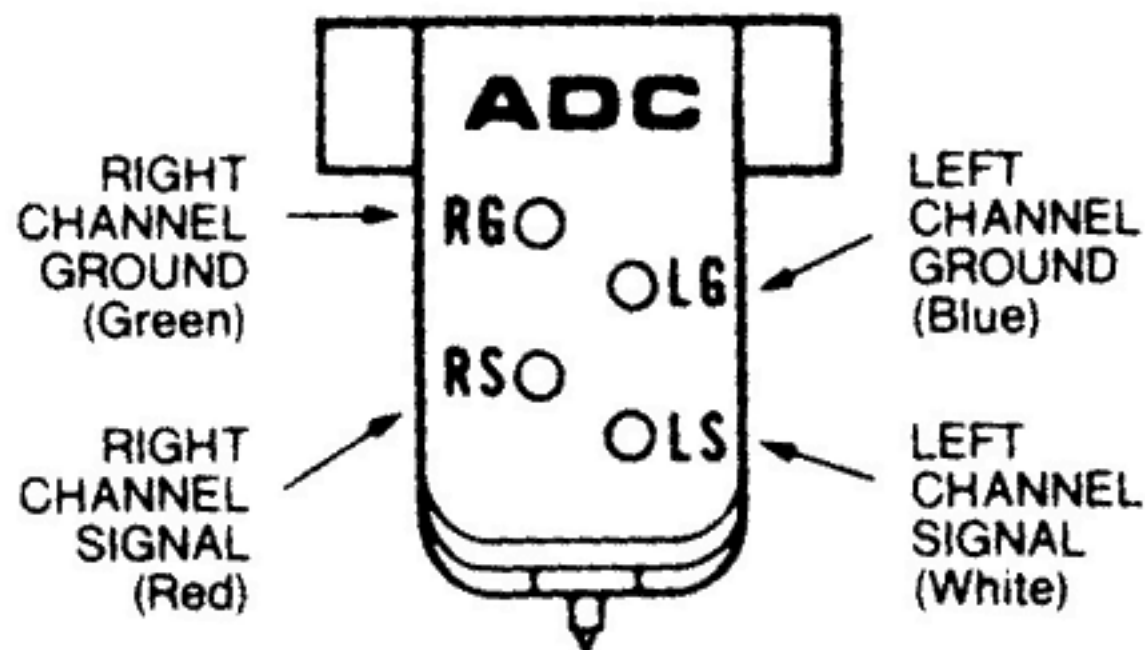
- 3.) The stylus assembly will snap into position when properly seated.



ELECTRICAL CONNECTIONS

The terminals on the rear of the cartridge are labeled as shown. The cartridge shield can is internally grounded to the right channel ground for effective electromagnetic shielding. The mounting portion of the cartridge is non-conductive to prevent ground loops from occurring, even in metal head shells. Never solder wires directly onto the cartridge terminals or to the connectors (clips) while they are on the cartridge terminals.

Connect the metal chassis of your turntable to the amplifier ground by the separate wire which is usually provided with the turntable. The two signal cables from the tonearm should be grounded only by plugging them into the magnetic phono input plugs.



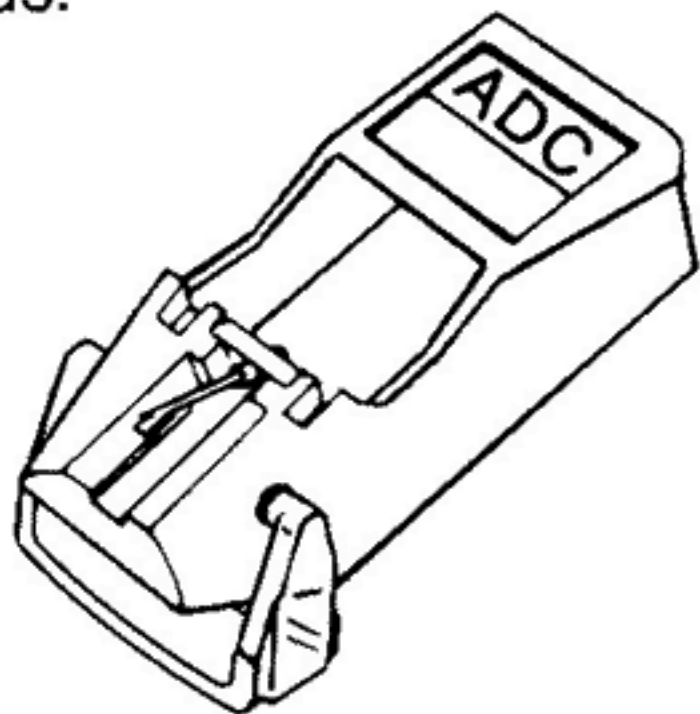
REPLACEMENT STYLI

Most audiophiles check their precision stylus for wear at least once a year under average-use conditions (a few hours per day at the specified vertical tracking force). Our Customer Service Department will be pleased to inspect your ADC stylus free of charge. Or, you can take it to your local ADC dealer.

When a replacement stylus is required, use only a genuine ADC replacement stylus. (Occasionally customers have been sold a stylus listed as "a replacement for" an ADC cartridge, and the performance was vastly degraded by the imitation stylus.)

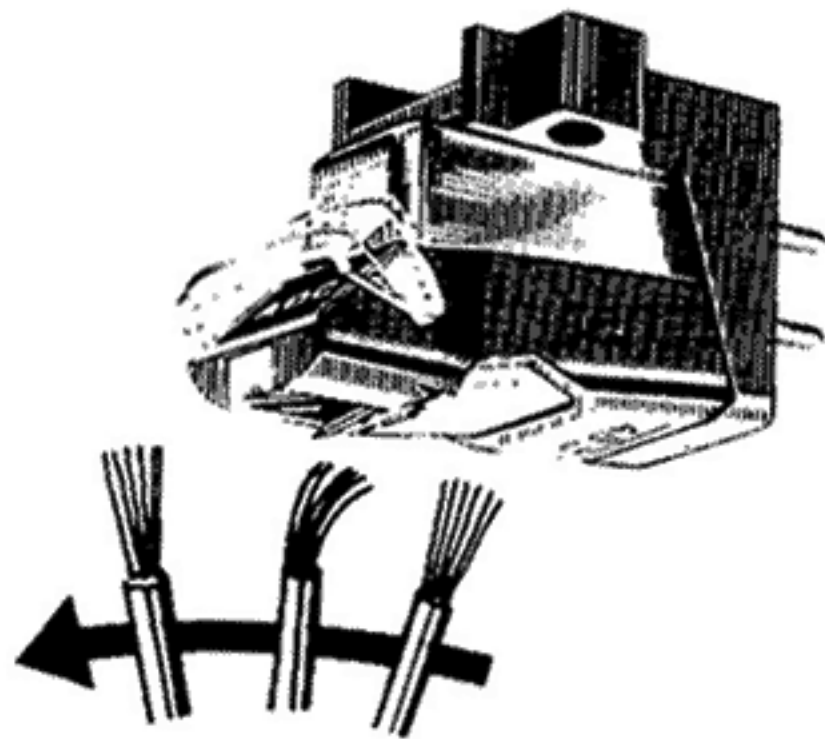
An original stylus assembly will have ADC molded into the front and underside of the stylus handle assembly, and is equipped with a clear snap-down stylus protector.

The replacement stylus for your XLM MK II IMPROVED is the RXL IMPROVED. For 78 RPM records, use an ADC R78 stylus.



STYLUS TIP AND RECORD WEAR

Dust particles tend to accumulate on stylus tips and records, resulting in poor sound quality. To remove the dust particles from the stylus tip, we recommend the use of a stylus brush, which should be *gently* wiped across the tip from back to front (see illustration). To minimize dust accumulations on your records, use an ADC anti-static record sleeve, available at your local ADC dealer.



LIMITED WARRANTY

Your ADC cartridge is warranted to meet manufacturer's specifications for at least one year from the date of purchase. If for any reason other than stylus wear or outright abuse, an ADC cartridge does not perform properly, return it to us and we will repair or replace it free of charge.

MAIL TO:

CUSTOMER SERVICE MANAGER

Audio Dynamics Corp.

Pickett District Rd.

New Milford, CT 06776



Audio Dynamics

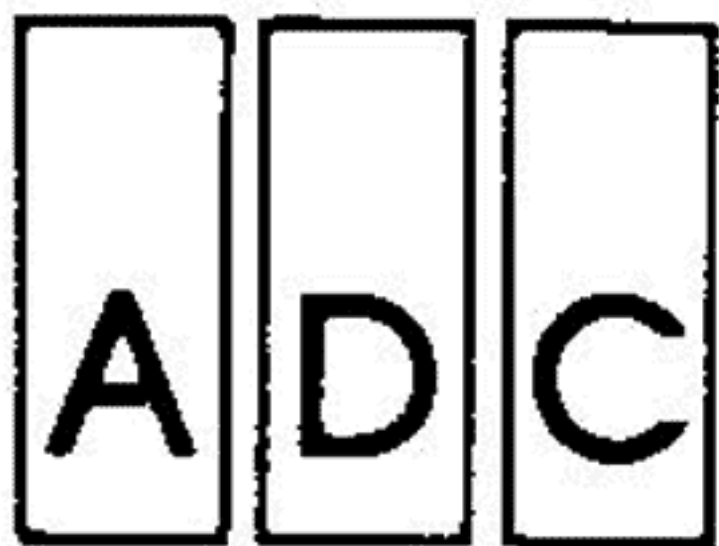
INDUCED MAGNET PHONOGRAPH
CARTRIDGES ARE MANUFACTURED
UNDER THE FOLLOWING PATENTS:

USA 3294405

CANADA 764041

UNITED KINGDOM 1092734

AUSTRALIA 278924



Audio Dynamics

Pickett District Rd.
New Milford, CT
06776 U.S.A.

Made in USA
Printed in USA

2067-1210-040

WARRANTY REGISTRATION

MODEL _____ SERIAL NO. _____

DATE PURCHASED _____

OWNER

Name _____

Address _____

_____ Zip _____

DEALER

Name _____

Address _____

_____ Zip _____

MAIL TO:

Audio Dynamics Corporation

Pickett District Rd., New Milford, CT 06776 U.S.A.

Why did you select this cartridge? _____

Your comments on this ADC cartridge _____

WARRANTY

This stylus is warranted to be free from manufacturing defects for a one year period from the date of factory shipment. During that time, should a defect occur, the unit will be repaired or replaced without cost. This warranty covers neither stylus wear, nor damage caused by accident or mishandling.

ADC SERVICE OFFER

If this stylus is accidentally damaged, we can make the necessary repairs for a nominal service charge, provided the diamond is in good condition. Simply send us the damaged unit and a check to cover the service cost.

The charge for the R-XL is \$12.50 *

The charge for the R-VL is \$ 9.00 *

***Plus 50¢ for postage and handling. Offer good only in the continental United States.**



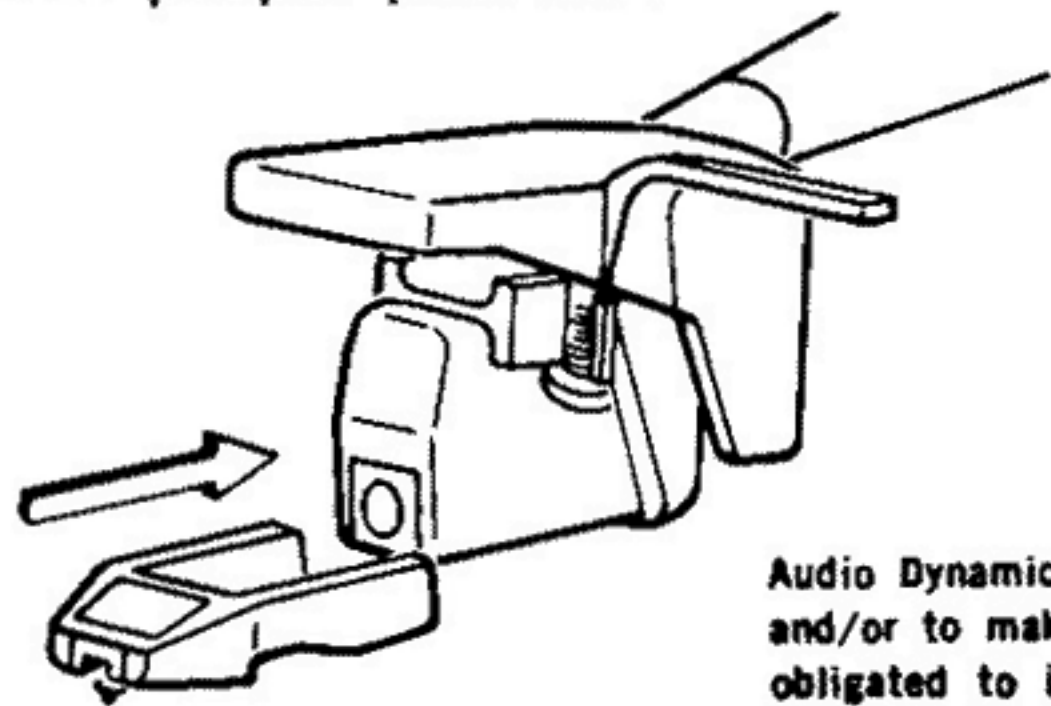
Only an ADC stylus manufactured by Audio Dynamics Corporation will provide you with the finest quality performance from your cartridge while preserving your valuable record collection from wear.

Manufactured under one or more of the following Patent Nos. — United States 3294405, Canada 764041, Japan 824184, Australia 278924, United Kingdom 1092734.

AUDIO DYNAMICS CORP PICKETT DISTRICT ROAD NEW MILFORD, CONN. 06776

INSTRUCTION SHEET

Stylus Replacements for the ADC XLM and ADC VLM Stereo Cartridges are, in order, R-XL and R-VL. Stylus Assemblies are designed to lock into proper position when slid onto cartridge body in manner illustrated.



A slight push to assure seating is advisable. Care must be taken not to harm the delicate stylus when installing or otherwise handling.

Audio Dynamics Corporation reserves the right to change the design or specifications and/or to make any improvements or additions in any of its products without being obligated to incorporate such changes in its products previously manufactured.