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UPX-003B

PHONO-MICROPHONE

PREAMPLIFIER

FOR

G-E VARIABLE RELUCTANCE CARTRIDGES

AND

OTHER LOW LEVEL MAGNETIC PICKUPS

AND

MICROPHONES



SPECIAL PRODUCTS

TELEVISION RECEIVER DEPARTMENT

ELECTRONICS PARK • SYRACUSE • NEW YORK

SPECIFICATIONS

Over-all Height
Chassis Dimensions
Weight
FinishZinc plate with lustre protecting treatment
Rating
Tube
Rectifier
Gain
Output (with 10 mv. input)
Output impedance at 30 cps
at 15,000 cps8000 ohms

GENERAL INFORMATION

The UPX-003B PREAMPLIFIER was designed to be used with G-E variable reluctance cartridges. Sufficient gain is provided to operate the cartridge with a standard radio receiver or audio amplifier. Equalization in the preamplifier itself provides bass boost to conform with the RIAA record industry standard. While intended primarily for use with G-E cartridges, the preamplifier may be used with any magnetic cartridge having a peak output up to 50 millivolts. See paragraph entitled "Microphone Preamplifier" for microphone use.

INSTALLATION

The unit is completely self-contained and ready to operate when connected to a power source. The conventional type phono input jack and output plug are used for making necessary connections. Two holes through the chassis and bottom cover provide convenient means for mounting either with wood screws into the cabinet or machine screws for mounting directly onto the chassis. Under severe microphonic conditions it may be advisable to install the entire preamplifier on some sort of shock mounting.

In the receiver or amplifier to be used with this unit, previously employed circuit compensation for phonograph frequency response must be removed.

BASS COMPENSATION

The preamplifier is provided with feedback circuit C6, R11 and R13 which gives a rising bass characteristic in order to compensate for the voltage drop due to the constant amplitude recording used in discs at low frequencies.

TREBLE COMPENSATION

Treble compensation can be accomplished by choosing a suitable resistor for R1, shown in the schematic diagram. The higher the value of this resistor, the greater the high frequency output of the cartridge. The value of this resistor may be varied from 6200 ohms to 100,000 ohms.

To obtain standard (RIAA) treble roll-off, the value of R1 should be 6200 ohms. A 6200-ohm resistor is packed in an envelope with the UPX-003B.

RECORD FILTER—The G-E Model A1-901 Record Filter combines the functions of a rumble filter, a record compensator and a high cut-off filter in one attractive unit. When using this unit with the UPX-003B, the cartridge load resistor R1 mentioned above should not be used.

MICROPHONE PREAMPLIFIER

A high impedance microphone may be used with the UPX-003B by plugging it into the input jack and switching S1 to the "MIC" position. The input load resistor (R1) should meet the specifications of the microphone manufacturer for proper microphone frequency response and sensitivity.

Caution should be observed when using the UPX-003B as both a microphone and a phono preamplifier that the proper

value of R1 is always used.

SCHEMATIC DIAGRAM

RESPONSE CURVES

WARRANTY

General Electric Company warrants to the purchaser of each new General Electric phono preamp, that any part thereof which proves to be defective in material or workmanship within ninety (90) days from the date of original purchase for use will be repaired or replaced in accordance with the terms of this warranty. Within said ninety (90) day period any such defect should be brought to the attention of the General Electric dealer from whom the phono preamp. was purchased. If, upon examination, the part is in fact determined to be defective in material or workmanship, the dealer will furnish the purchaser with a repaired or replacement part. The responsibility of the General Electric Company is limited to making a repaired or replacement part available to the purchaser, and does not include the furnishing of any labor involved or connected therewith, such as that required to diagnose trouble or to remove or install any such parts; nor does it include responsibility for any transportation expense, such as that required for the return of defective parts to the dealer, distributor or manufacturer.

This warranty is made only to purchasers located and purchasing within the United States and the Territory of Hawaii. The Company makes no warranty express or implied to other purchasers located elsewhere.

The foregoing is in lieu of all other warranties, express, implied or statutory, and General Electric Company neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with said preamp.

REPLACEMENT PARTS LIST

Cat. No.	Symbol	Description	
UNIVERSAL REPLACEMENT PARTS			
RCN-045	C 6	CAPACITOR0082 mf., 400 v., paper	
UCC-635	C1, 2, 4 R8, 9*	CAPACITOR05 mf., 400 v., paper	
	R8, 9*	RESISTOR—22,000 ohms, ½ watt,	
		carbon Treckerore accordance 1/2 mosts	
	R11*	RESISTOR—39,000 ohms, ½ watt, carbon	
	R12*	RESISTOR—47,000 ohms, ½ watt,	
		carbon	
	R 4*	RESISTOR-68,000 ohms, ½ watt,	
		carbon	
	R2, 3*	RESISTOR—3.3 meg., ½ watt, car.	
URD-1068	R1	RESISTOR—6200 ohms, $\pm 5\%$, $\frac{1}{2}$	
	T3 1 A	watt, carbon	
URD-1120	R13	RESISTOR910K ohms, $\pm 5\%$, $\frac{1}{2}$ watt, carbon	
		watt, carbon	
	<u></u>	<u> </u>	
SPECIALIZED REPLACEMENT PARTS			
RCE-074	C5A, B,	CAPACITORElectrolytic capacitor,	
CCE-074	Сэд, Б,	15 x 15 x 30 mf., 150 v.	
RER-011	Y1	RECTIFIER—Selenium rectifier	
RJP-004	P1	PLUG-Phono output plug	
RJP-018	J1	JACK—Phono input jack	
RJS-037		PLATE—Electrolytic mounting plate	
RJS-085		SOCKET—Tube socket	
RPX-034	ጥነ	ASSEMBLY—Pickup lead assembly TRANSFORMER—Power trans-	
RTP-307	Т1	former	
RSS-011	S1	SWITCH-Phono-mic switch	
RWL-009	~~	CORD—Power cord	

^{*} Resistors shown without catalog numbers are common 10% tolerance resistors available from your Radio Parts Jobber.



