

## CONSUMER REPLACEABLE STYLUS

Follow illustrations carefully to avoid damage!

To remove the stylus assembly use the special tool supplied with your Model "F" pickup.

The tool has hooks with a backing plate behind each hook, extending  $\frac{1}{8}$ " longer than the hooks.

Lay the flat of the backplate extension flush against the rear of the stylus plate—MAKE SURE THE TOOL BLACKPLATE DO NOT GO INTO THE SCREWHOLES. Push down on the tool until it seats with a click as in (fig. 1) with the hook around the stylus plate as in (fig. 2). Pull stylus removing tool in the direction of the arrows on the tool until the stylus assembly is clear of the pickup.

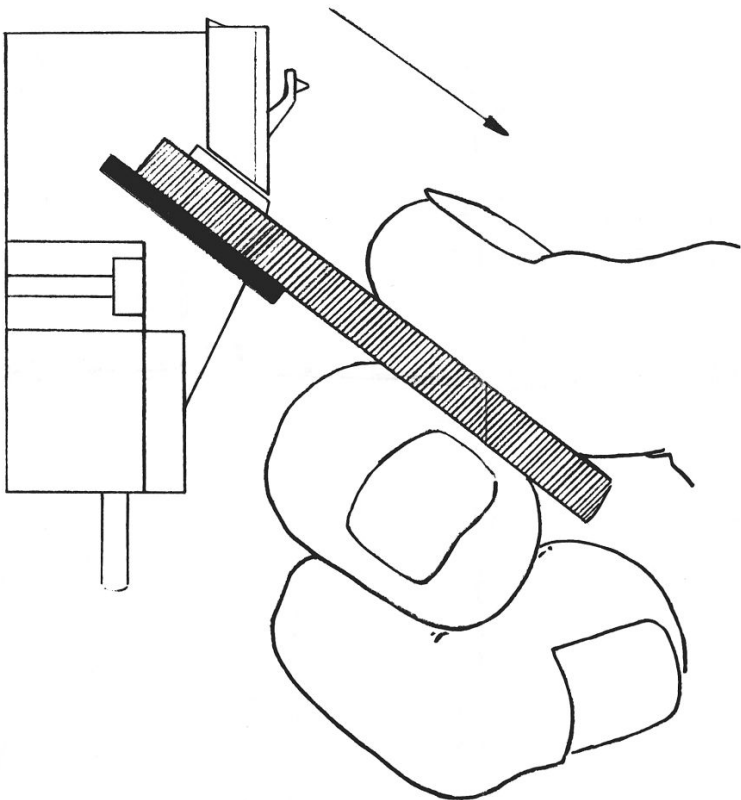
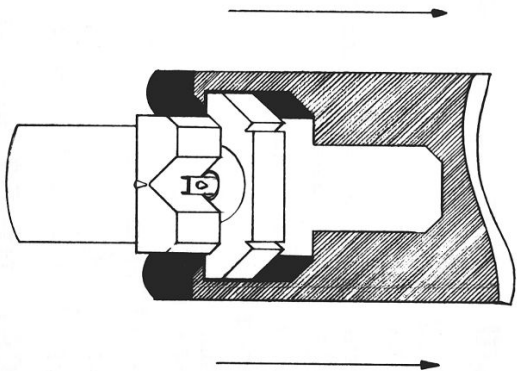


FIG. 1

FIG. II



## COLOR CODE FOR REPLACEMENT STYLII

### MODEL F SERIES

FTR/S	gray plate	.6 mil Sph.	gray plate
FTE/S	gray plate	.7 x .3 mil Ell.	two white dots
FCR/S	gray plate	.6 mil Sph.	gray plate
FCE/S	gray plate	.7 x .3 mil Ell.	two white dots
F-3/S	black plate	.6 mil Sph.	black plate
F-2/S	black plate	.6 x .3 mil Ell.	two white dots
F-1/S	black plate	Twin .3	two blue dots

Quarter Sphere Tips  
Patent No. 3,292,936

78 RM black plate two green dots

Although the FT and FC Series have the same color code, the FC Series stylus assemblies contain selected components which are assembled with closer tolerances!

## GUARANTEE

The Grado Model F stereo pickups are guaranteed to be free from mechanical or electrical factory defects for a period of one year from the date of purchase or 18 months from the date of factory shipment, providing all the enclosed instructions have been complied with.

The above guarantee does not include stylus wear and does not include stylus damage due to abuse or mishandling.

A new stylus assembly may be purchased from your dealer.

**GRADO LABORATORIES, INC.**

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## GRADO MODEL F STEREO PICKUPS

### SPECIFICATIONS—FT, FC and F-3 Series

Output—4 Millivolts @ 3.54 CMV — 45°  
 Frequency Response—10-35,000 Hz (cps)  
 Channel Separation—Dynamic Full Range—25DB  
 (CBS STR III L & R Channel Square Wave)  
 Recommended Load—10,000 Ohms or more  
 Inductance—55 Millihenries  
 DC Resistance—700 Ohms  
 Tip Mass Resonance—35,000 Hz (cps)  
 Mounting—Standard 1/2" (12.7mm) centers  
 Pickup Weight—5.5 grams  
 Stylus—Diamond—.6 spherical, .7 x .3 Elliptical

### SPECIFICATIONS—F-2 and F-1 Series

Same as above with the following exceptions:

#### Model F-2

Frequency response—7-40,000 Hz (cps)  
 Tip Mass Resonance—40,000 Hz (cps)  
 Stylus—Diamond — .6 x .3 elliptical

#### Model F-1

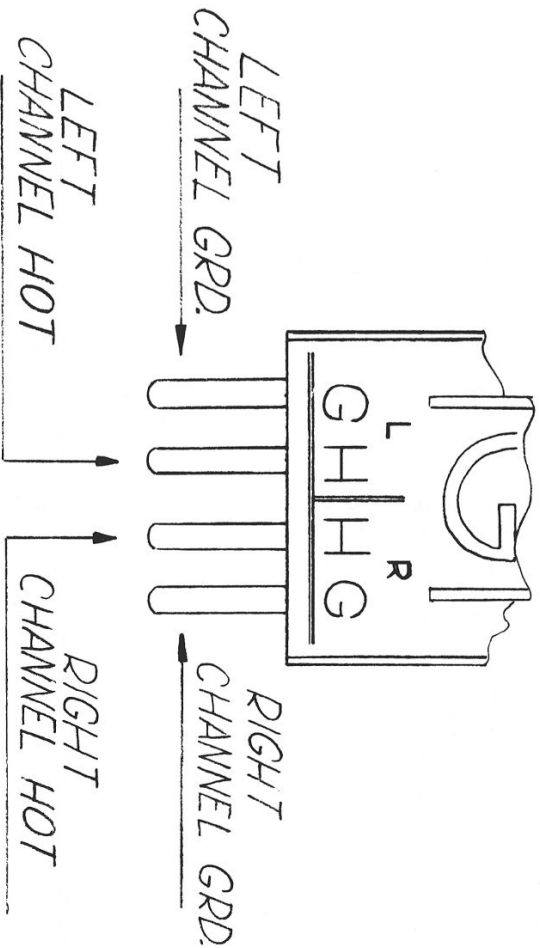
Frequency response—7-40,000 Hz (cps)  
 Tip Mass Resonance—40,000 Hz (cps)  
 Stylus—Twin .3 Quarter Sphere Tips  
 Patent No. 3,292,936  
 Calibrated—with chart supplied

### TRACKING FORCE GUIDE

MODEL	STYLUS	FORCE
FTR	FTR/S	1 1/2-3 1/2 grams
FTE	FTE/S	
FCR	FCR/S	
FCE	FCE/S	1-2 grams
F-3	F-3/S	
F-2	F-2/S	
F-1	F-1/S	

## ELECTRICAL CONNECTIONS

### STEREO



#### Mono for Mono Tone Arm:

Connect both hot pins to hot lead in mono cable.

Connect both ground pins to ground lead in mono cable.

#### Mono for Stereo Tone Arm:

Connect both cables from tone arm to a "Y" connector cable which has two female inputs and one male output.

**CAUTION: DO NOT SOLDER CONNECTIONS DIRECTLY TO CARTRIDGE PINS. MAKE SOLDER CONNECTIONS TO CONNECTOR BEFORE SLIDING CONNECTORS ON CARTRIDGE PINS.**