



## Model A96F User Guide

### MODEL A96F LINE MATCHING TRANSFORMER

This transformer connects microphones with an XLR-type connector to the 3.5 mm (1/8 in.) inputs found on camcorders and other recording devices. It increases the signal level from the microphone, provides a balanced input, and prevents distortion due to the d.c. bias typically found in camcorder microphone inputs.

### IMPEDANCE SELECTION

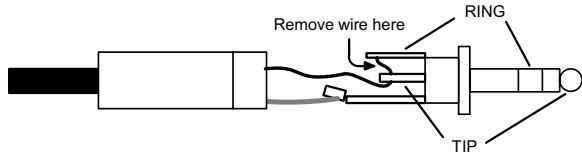
The A96F can be modified for microphones rated at 150  $\Omega$ . This modification is only necessary if the output level from the A96F is insufficient for your recording device. Use the following steps:

1. Access the wiring in the XLR plug element of the A96F by loosening the screw and sliding the plug from the case.
2. Unsolder the RED lead from pin 2. Insulate the bare wire at the end of the lead with the insulator from the YELLOW lead.
3. Solder the YELLOW lead to pin 2.
4. Rotate the plug element three turns to twist the leads and replace the element in the housing. Replace the screw.



## TROUBLESHOOTING

1. Unscrew the housing from the miniature plug on the A96F to expose the wires inside the connector.
2. Use wire clippers to cut and remove the wire between the tip and ring leads (see figure below). **Make sure to remove the wire completely** from between the leads so that there is no contact between the tip and ring.
3. Reassemble the plug.



If the microphone still does not work, contact Shure Application Engineering at 1-800-516-2525. Please have the camcorder user's guide available.

## SPECIFICATIONS

### Frequency Response

20 to 20,000 Hz  $\pm$  2 dB

### Impedance

Low impedance: 600  $\Omega$  (supplied) or 150  $\Omega$

Medium impedance: 2,500  $\Omega$

### DC Resistance

Low impedance:

600  $\Omega$  winding: 56  $\Omega$

150  $\Omega$  winding: 28  $\Omega$

Medium impedance:

Open Circuit

### Voltage Ratio

600  $\Omega$

150  $\Omega$

Low impedance to medium impedance: +6 dB

+12 dB

### Maximum Recommended Input Levels

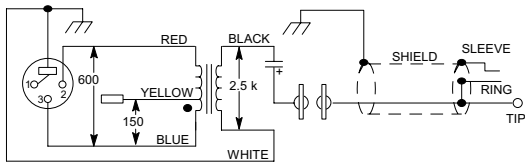
Source <u>Impedance</u>	Winding <u>Being Driven</u>	Maximum <u>Level</u>
150 $\Omega$	150 $\Omega$	0.5 V
600 $\Omega$	600 $\Omega$	1.0 V
2,500 $\Omega$	2,500 $\Omega$	2.0 V

### Case

Full magnetic shield, steel with gray enamel finish

### Dimensions

19 mm (3/4 in.) diameter; 89 mm (3 1/2 in.) long



## FULL TWO YEAR WARRANTY

Shure warrants this product to be free in normal use of any defects in workmanship and materials for two (2) years from the date of purchase. If your Shure product fails within this period, call 1-800-516-2525 in the United States for details on repair, replacement, or refund. This warranty does not cover abuse or misuse of the product, use contrary to Shure's instruction, ordinary wear and tear, an act of God or unauthorized repair.

## SHIPPING INSTRUCTIONS

Carefully repack the unit, have it insured, and return it prepaid to:

**Shure Incorporated**

**Attention: Service Department**

**5800 W. Touhy Avenue Niles, Illinois 60714-4608**

If outside the U.S.A., return the unit to your dealer or Authorized Shure Service Center for repair. The unit will be returned to you prepaid.