

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

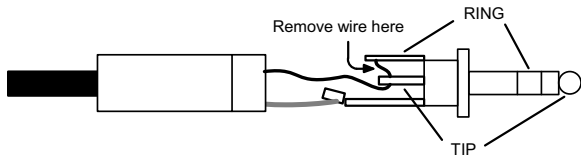
The A96F can be modified for microphones rated at 150 Ω . This modification is only necessary if the output level from the A96F is insufficient for your recording device. Use the following steps:

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.



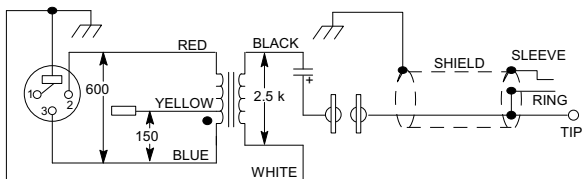
TROUBLESHOOTING

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.

WIRING DIAGRAM



SPECIFICATIONS

Frequency Response

20 to 20,000 Hz \pm 2 dB

Impedance

Low impedance: 600 Ω (supplied) or 150 Ω

Medium impedance: 2,500 Ω

DC Resistance

Low impedance:

600 Ω winding: 56 Ω

150 Ω winding: 28 Ω

Open Circuit

Medium impedance:

Voltage Ratio

600 Ω

150 Ω

Low impedance to medium impedance:

+6 dB

+12 dB

Maximum Recommended Input Levels

<u>Source Impedance</u>	<u>Winding Being Driven</u>	<u>Maximum Level</u>
150 Ω	150 Ω	0.5 V
600 Ω	600 Ω	1.0 V
2,500 Ω	2,500 Ω	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

LIMITED WARRANTY

Shure Incorporated ("Shure") hereby warrants to the original consumer purchaser only that this product will be free in normal use of any defects in materials and workmanship for a period of two (2) years from the consumer's original date of purchase directly from Shure or from a Shure-authorized reseller. At its sole option, Shure will repair or replace the defective product and promptly return it to you. In order for this warranty to be valid, the consumer must, at the time the product is returned, provide proof of purchase in the form of the original purchase receipt directly from Shure or from a Shure-authorized reseller. If Shure elects to replace the defective product, then Shure reserves the right to replace the defective product with another product of the same model or a model of at least comparable quality and features in Shure's sole determination.

If you believe this product is defective within the warranty period, carefully repack the unit, insure it and return it with proof of purchase, postage prepaid, to Shure Incorporated, Attention: Service Department, at the address below.

Outside of the United States, return the product to your dealer or Authorized Service Center. Addresses are listed on www.Shure.com or can be obtained by contacting Shure at the address listed below.

This warranty is not transferable. This warranty does not apply in cases of abuse or misuse of the product, use contrary to Shure's instruction, ordinary wear and tear, an act of God, negligent use, purchase from a party other than Shure or a Shure-authorized reseller, unauthorized repair, or modification of the product.

ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED TO THE EXTENT PERMITTED UNDER APPLICABLE LAWS AND, TO THE EXTENT NOT PERMITTED, ARE HEREBY LIMITED TO THE DURATION AND TERMS OF THIS WARRANTY.

SHURE ALSO HEREBY DISCLAIMS ALL LIABILITY FOR INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

This warranty does not restrict the rights of the consumer mandated under applicable laws.

THIS WARRANTY SUPERSEDES ALL OTHER WARRANTIES THAT ARE ASSOCIATED OR INCLUDED WITH THIS PRODUCT.

Shure Incorporated
Attention: Service Department
5800 W. Touhy Avenue
Niles, IL 60714-4608 U.S.A.

SHURE®

*SHURE Incorporated <http://www.shure.com>
United States, Canada, Latin America, Caribbean:
5800 W. Touhy Avenue, Niles, IL 60714-4608, U.S.A.
Phone: 847-600-2000 U.S. Fax: 847-600-1212 Intl Fax: 847-600-6446
Europe, Middle East, Africa:
Shure Europe GmbH, Phone: 49-7131-72140 Fax: 49-7131-721414
Asia, Pacific:
Shure Asia Limited, Phone: 852-2893-4290 Fax: 852-2893-4055*