

# Users Manual



## SP 70 / Item.No.: 1037-NF



Before mounting your SUPER AMP, the preamplifier gain should be adjusted. As shipped, the preamplifier gain has been set to maximum which is approximately 22 dB of gain. Remove the four screws from the plastic cover, you will find an access hole in the tin plated lid. Use an insulated tool to adjust the gain and do not apply excessive force. Normally you should set the gain +10 dB above the noise figure of your radio plus feedline losses. For typical multi mode radio's, maximum gain is recommended. If using a high quality transverter with a low noise figure, a gain setting of 12 – 15 dB is recommended.

### Controller Positions

Right:	22 dB amplification
Center:	17 dB amplification
Left:	20 dB amplification

### How to connect:

Always protect the input and output of the preamplifier from static voltages and HF power! High power at the input or output can destroy the internal device. Before connecting the antenna cable, any existing static charge in the cable should be discharged by shorting the inner and outer conductor of your cables. The connection sequence should be as follows: Receiver, antenna, and lastly power supply.

### Technical Data

Frequency range:	400-440 MHz
Noise figure, Type.:	0,7 dB
Amplification, var.:	12-22 dB
Switching capacity:	HF-VOX: 100 W
Admissible power at P.T.T sequencing:	500 W / SSB 250 W / FM
Insertion loss:	0.15 dB
Operating voltage:	12V-14V
Connection standard:	N-socket
DC input:	UHF-socket, or remote via coax
Current consumption:	320 mA

Mast diameter: max. 58 mm

Switching time (RX->TX): 0,5 sec

Recom. Sequencer: DCW 2004 B

Always use shielded cables for the power supply in distance >1m. The shield should be connected to 0V supply ground. Unshielded cables can act as antennas and cause damage due to static voltages!

### Notes on environmental protection



Electrical and electronic devices may not be disposed of with household waste. This must be handed in separately at collecting points, or returned to the point of sale. Packaging materials must be separated and disposed of through the municipal waste by material type.

### Maintenance

Do not open the unit. It does not contain any parts needing maintenance. If you need help regarding technical matters, please contact [support@ssb-electronic.com](mailto:support@ssb-electronic.com). For a lowest possible noise figure of the complete system, set preamp to maximum gain.

### Safety, Warranty

Not suitable for children! The packaging material and the device may contain small parts which may be swallowed. Repairs may only be performed by qualified personnel., Opening the device, or improper use will void any warranty claims. No guarantee will be given. The device applies to the Low Voltage Directive 2006/95/EG, as well as to 2004/108/EG, 2002/96/EG, 1999/44/ EG.

### Declaration of Conformity



The CE mark is a free trade mark. It does not guarantee any product features. The product does apply all relevant regulations within the scope of 94/62/EG.

Manufacturer is: SSB-Electronic GmbH,  
Am Pulverhäuschen 4, 59557 Lippstadt/Germany

Technical changes are reserved. Contents of this document are the intellectual property of SSB-Electronic GmbH. Reproduction is only permitted with the express written approval.

### How to contact:

E-Mail:	<a href="mailto:support@ssb-electronic.com">support@ssb-electronic.com</a>
Phone:	+49 (0) 2941-93385-0
Internet:	<a href="http://www.ssb-electronic.com">www.ssb-electronic.com</a>