

INSTRUCTION MANUAL

651128300M

Galaxy III Series Preamplifiers

A complete line of superior performance rated, mast mounted preamplifiers for any home installation requirement.

- All new Transformer and Power Adder simplify hook-up and mounting.
- Low noise figure and mast mount design reduces “snow” on weak TV channels.
- Excellent gain for improved reception.
- Increased input capability minimizes effects of strong interfering signals.
- Units employ the most modern technology for protection from lightning and power line surges.
- Includes heavy duty mast mounting hardware to insure secure installation.

| | Stock No. | Name | Amplifier Output (ohms) | Power Adder Output (ohms) |
|----------------|------------------|-------------------|--------------------------------|----------------------------------|
| UHF | 5118 | Able U2 III | 300 | 300 |
| | 5119 | Able U2 III 75 | 75 | 75 |
| | 5219 | Able U2 III 75-75 | 75 | 75 |
| UHF/VHF | 5122 | Voyager III | 300 | 300 |
| | 5123 | Suburban III | 75 | 75 |
| | 5124 | Vaulter III | 75 | 75 |
| | 5125 | Vaulter III Dual | 75 | 75 (2) |

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER FROM THIS UNIT. NO USER-SERVICEABLE PARTS INSIDE.

WARNING: TO PREVENT SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE

NOTE TO CATV INSTALLERS

This reminder is provided to call the CATV System Installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Note: FM response is reduced to maintain distortion free TV reception in the presence of strong FM signals. Preamp will pass FM adequately in stronger signal areas, but is not intended for critical weak signal FM preamplification.

INSTALLATION INSTRUCTIONS

PREAMPLIFIER CONNECTIONS

(Refer to Installation Diagrams I thru IV)

1a. Single antenna UHF or VHF only or UHF/VHF combined.

1. Connect a 300 ohm twinlead from antenna to terminals marked ANT on preamplifier.
- or 2. Connect a 75 ohm coaxial cable from antenna to terminal marked ANT on preamplifier

or 1b. Separate UHF and VHF antennas.

Connect a 300 ohm twinlead from UHF antenna to preamplifier terminals marked UHF ANT. Connect a 300 ohm twinlead from VHF antenna to preamplifier terminals marked VHF ANT.

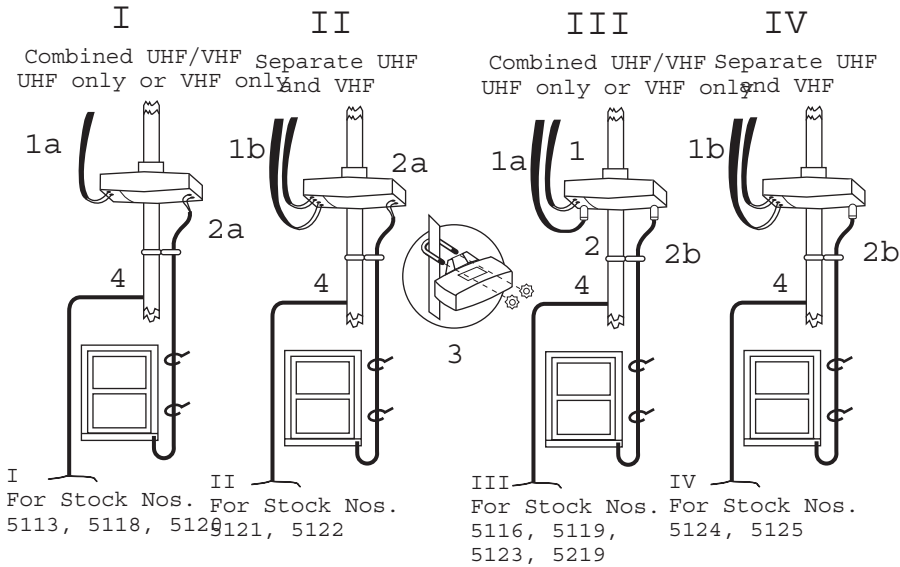
Be sure to leave enough slack in the twinlead to form a drip loop so rain water does not enter the preamplifier case.

- 2a. Using 300 ohm twinlead, connect downlead to terminals on preamplifier marked TO POWER SUPPLY.
- or 2b. Using 75 ohm coaxial cable, connect downlead to terminal on preamplifier marked TO POWER SUPPLY.

Keep downlead as far away as possible from the input wire, a minimum of two inches. Do not place any device in the downlead between the preamplifier and power supply. A signal splitter, for example, may not pass power and would prevent the preamplifier from operating.

3. Mount preamplifier to the antenna mast as shown. If mast is attached to a chimney, mount the preamplifier below the chimney top to avoid exposure to fumes.
BE SURE THE ANTENNA MAST IS WELL GROUNDED.
4. Run the downlead as shown, using stand-offs. Form a drip loop where downlead

Installation Diagrams Preamplifier



For future reference, record the model name and stock number of your mast-mount preamplifier unit below.

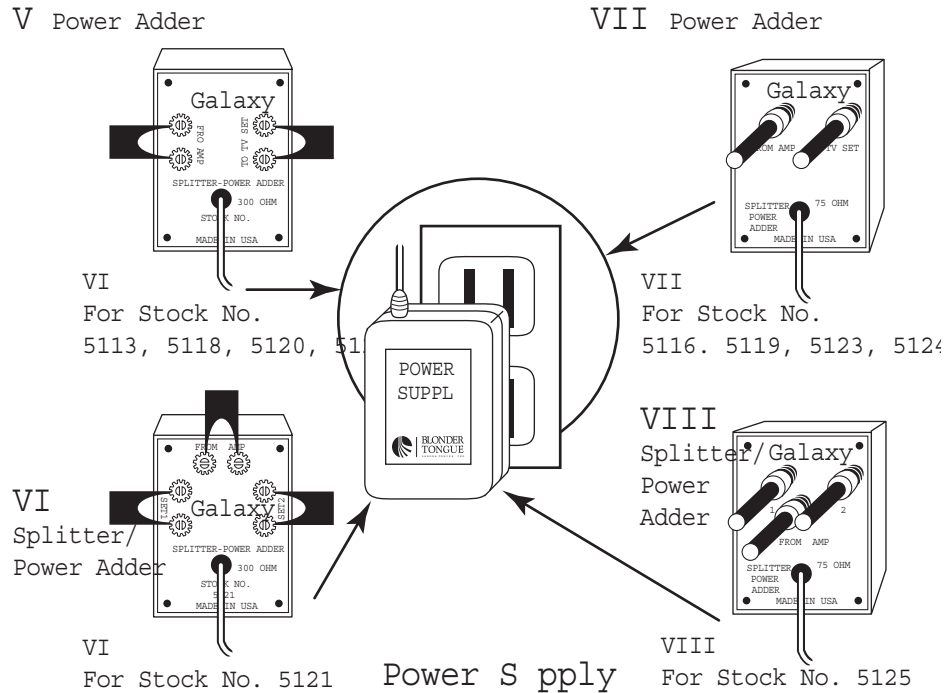
Please use this information if contacting your distributor or our factory regarding any service problem.

Model Name: _____

Stock No: _____

Note: The same power adder (with a common stock number) is used for several different mast-mounted preamplifiers. Referring to the Power Adder stock number only will not enable us to determine the unit which you have purchased.

Installation Diagram Splitter-Power Adder



APPLICATIONS

Any questions regarding unusual signal conditions and applications should be directed to: SYSTEMS ENGINEERING DEPT. BLONDER TONGUE LABORATORIES, INC.

SERVICE

This product is designed to give long trouble-free service when installed according to the instructions in this booklet. If you suspect a malfunction as evidenced by excessive "snow" on the TV picture, check all connections between antenna, amplifier, and TV set. Be sure that connections on the amplifier are not reversed. Also check cables for breakage or shorts. If this does not restore normal operation return the unit to your dealer, or refer to **Returning Product for Repair (or Credit)** below.

Returning Product for Repair (or Credit)

A Return Material Authorization (RMA) Number is required on all products returned to Blonder Tongue, regardless if the product is being returned for repair or credit. Before returning product, please contact the Blonder Tongue Service Department at 1-800-523-6049, Ext. 4256 or visit our

POWER ADDER and TV SET CONNECTIONS

(Refer to Installation Diagrams V thru VIII)

1. Connect the preamplifier downlead to the POWER ADDER at the terminal marked FROM AMP.
2. Refer to Stock No. of the preamplifier being installed and make the connections between the POWER ADDER and TV set(s) as detailed below.

Stock No.

- 5113 Connect a 300 ohm twinlead from the two terminals marked TO TV SET to the VHF terminals on the TV set.
- 5116 Connect a 75 ohm coaxial cable at the terminal marked TO TV SET. Attach a 300/75 ohm Matching Transformer (not supplied) to the other end of the cable and connect the Transformer leads to the VHF terminals of the TV set.
- 5118 Connect a 300 ohm twinlead from the terminal marked TO TV SET to the UHF terminals on the TV set.
- 5119 Connect a 75 ohm coaxial cable at the terminal marked TO TV SET.
- 5219 Attach a 300/75 ohm Matching Transformer (not supplied) to the other end of the cable. Connect the Transformer leads to the UHF terminals of the TV set.
- 5120 Connect a 300 ohm twinlead to the terminals marked TO TV SET.
- 5121 Connect a 300 ohm twinlead to the two terminals marked SET 1. Connect another twinlead to the two terminals marked SET 2. Attach a U/V Band Separator (not supplied) to the other end of each twinlead. Connect the leads of the Band Separators to their respective UHF and VHF terminals on the TV sets.
- 5122 Attach a U/V Band Separator (not supplied) to the other end of the twinlead. Connect the leads of the Band Separator to the UHF and VHF terminals of the TV set.
- 5123 Connect a 75 ohm coaxial cable at the terminal marked TO TV SET.
- 5124 Attach a U/V Band Separator (not supplied) at the TV set end of cable. Connect the leads of the Band Separator to the respective UHF and VHF terminals on the TV set.
- 5125 Connect a separate 75 ohm coaxial cable to the terminals marked SET 1 and SET 2. Attach a U/V Band Separator (not supplied) to the TV set end of each cable. Connect the Band Separator leads to their respective UHF and VHF terminals on each TV set.
3. Mount POWER ADDER with screws supplied, in a convenient location.
 4. Plug TRANSFORMER into a 117 volt AC outlet. The preamplifier is now operating. It is not necessary to unplug the unit when the TV set is not in use since the unit draws very little current, less

COAXIAL CABLE CONNECTIONS: (Figure 1)

A. Cut And remove 5/8" of jacket

NON-BONDED FOIL OR NON-FOIL CABLE

1. Bend foil and/or braid back leaving insulation exposed.
2. Carefully cut off and remove 1/2" of insulation. (Do not nick center conductor). Clean conductor if any insulation adheres to it.
3. Slide ferrule over foil and/or braid. Non-Bonded Foil - Push entire connector mandrel UNDER foil. Non-Foil - Push entire connector mandrel BETWEEN braid and insulation.

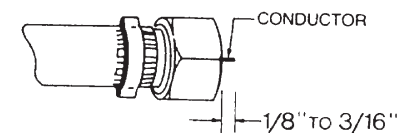
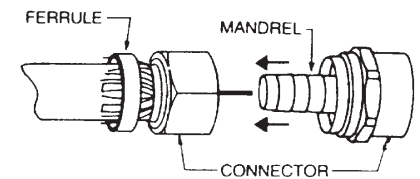
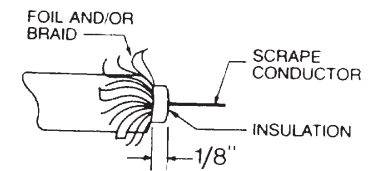
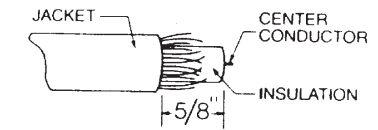


Figure 1

BONDED FOIL

1. Bend braid back leaving foil exposed.
2. Carefully cut off and remove 1/2" of foil and insulation. (Do not nick center conductor). Clean conductor if any insulation adheres to it.
3. Slide ferrule over braid. Push entire connector mandrel OVER foil.
4. Position ferrule over mandrel and crimp gradually (do not exert sudden pressure).
5. Cut off center conductor 1/8" to 3/16" in front of connector and trim off excess foil and/or braid.

TWINLEAD CABLE CONNECTIONS.

1. Strip about 1/2 inch of insulation from the cable end and expose the two copper wires inside.
2. Fold the two wires back over the cable end. Be sure to keep them separated.
3. Loosen the cable clamping screws

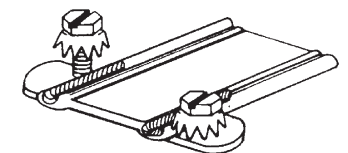


Figure 2

CAUTION

DO NOT OVERTIGHTEN STRIPLESS SCREWS. TIGHTEN ONLY ENOUGH TO PIERCE 300-OHM TWINLEAD

STRIPLESS SCREWS ARE FULLY TIGHTENED WHEN THE TEETH OF THE WASHERS ARE BURIED

