

Provide International Call Back

Why use a service bureau? Now you can own your own "International Call Back" unit!

By installing the **RAD-AMP/RAD-INTL** combination in the United States on a Centrex line or C.O. line with "Call Transfer" features, dramatic savings can be realized over calls originating from foreign countries.



When your foreign office calls the **RAD-AMP** and hangs up in less than five rings, the **RAD-AMP** immediately calls back. If the line is busy, the unit redials until a connection is made. Your foreign office can then enter a security code plus the number to be dialed at U.S telephone rates. When the call is transferred, the **RAD-AMP** is free to accept new calls. The "call back" number can also be changed remotely to allow roaming capabilities.

<http://www.VikingElectronics.com>

E-mail...Sales@VikingElectronics.com

Features

- Audio amplifier
- Roaming capability
- Programmable security code
- Remote night switch capability
- Busy and ring detection
- Non-volatile memory (No batteries required)
- Programmable access code
- 20 digit phone number memory

Specifications

Description: One 18 pin microcontroller chip

Note: For complete specifications on the **RAD-AMP**, retrieve **Fax Back Document 415**.

Important: When using the **RAD-INTL** software, this technical practice must be used for all programming and installation instructions.

Made in the U.S.A.

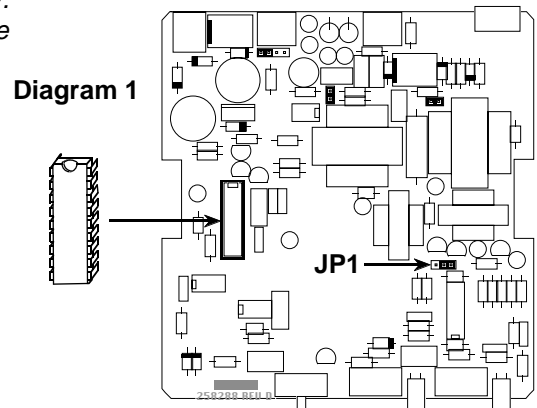
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Installation

Replace the existing software in the **RAD-AMP** with the **RAD-INTL** software by following steps 1-8 below.

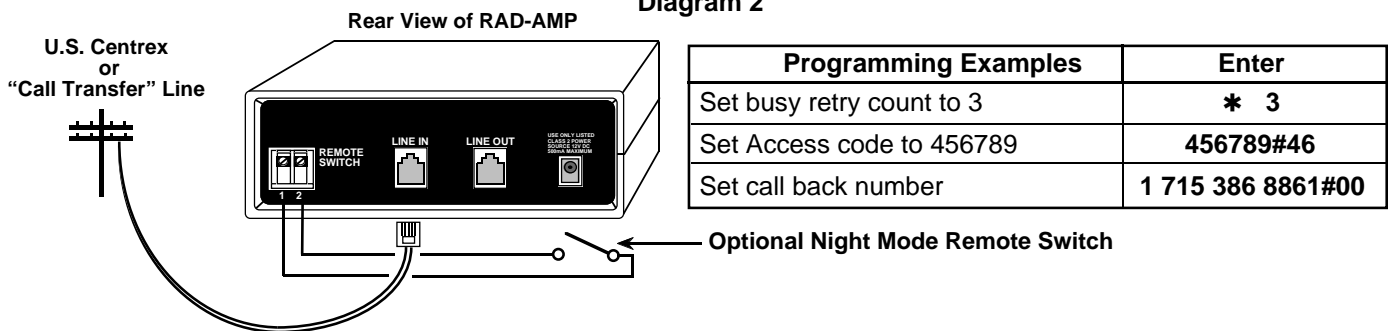
Important: Electronic components are sensitive to static electricity. Personnel and the work area should be grounded before handling the **RAD-AMP** and its components.

1. Be sure that the AC power and the phone line have been disconnected.
2. Remove the two phillips screws on the bottom of the unit.
3. Remove the top half of the chassis.
4. Carefully remove the Micro. by prying it out of the socket.
5. Install the new Micro. into the socket, with the indent (notch) in the direction as shown in the **Diagram 1**.
6. Move jumper **JP1** to position shown.
7. Reinstall the chassis cover and replace the two screws.
8. Reconnect AC power and phone line.



Note: The **RAD-AMP** must be programmed before normal operation. For normal operation the front panel switch should be set to the **ON** position and the remote night switch contacts must be open.

Diagram 2



Programming

To access programming, call into the **RAD-AMP**. After the **RAD-AMP** answers and a single beep is heard, enter the security code. The security code has been factory set to 845464 (V-I-K-I-N-G). The **RAD-AMP** will beep twice indicating that programming has been accessed. Alternatively, programming can be accessed by allowing the **RAD-AMP** to call you back. After a beep is heard, enter a ***** followed by the security code.

Notes: It is recommended that the factory set security code be changed. While programming, if 20 seconds elapse between Touch Tones, the **RAD-AMP** will disconnect. All valid Touch Tone programming sequences are acknowledged with a double beep. A triple beep indicates that a mistake has been made.

<u>Programmable Features</u>	<u>Digits</u>	<u>Programmable Features</u>	<u>Digits</u>
(1) Set no busy retry	* 1	Security code (6 digits, 0-9)	#47
Set busy retry count to 1	* 2	Access code (6 digits, 0-9)	#46
Set busy retry count to 3	* 3	Note: Access code must be different than security code	
Set busy retry count to 7	* 4	Call back number (1-20 digits)	#00
Set busy retry count to 15	* 5	(2) To enter a * in the call back number	* *
(1) Alert tones enabled	* 9	(2) To enter a # in the call back number	* #
Alert tones disabled	* 0	(2) To enter a pause in the call back number	* 7
Double flash on busy	* 7		
(1) Single flash on busy.....	* 8	(1) Factory Default Setting	
		(2) Can NOT be the first digit in the dialing string	

Operation

When an inbound call of less than 5 rings is detected, the **RAD-AMP** will automatically call the preprogrammed phone number. If the line is busy, the **RAD-AMP** will redial that number a programmable number of times. To stop busy redialing before the programmable parameter is met, answer the call, enter a Touch Tone *****, and hang up. When the call back has been answered, a beep is provided every 7 seconds as a prompt to enter a ***** followed by a six digit access code or the security code for programming. If 90 seconds elapses without a valid code being entered, the **RAD-AMP** will disconnect. If the correct access code has been entered, the **RAD-AMP** will beep twice as a prompt for a phone number to be entered. If the phone number is not entered within 20 seconds, the **RAD-AMP** will disconnect. When a phone number has been entered, the **RAD-AMP** will flash and dial the phone number. If the **RAD-AMP** detects a ring at the phone number, the **RAD-AMP** will hang up to connect the two parties. If the phone number dialed by the **RAD-AMP** is busy, the unit will flash and beep twice for "busy" notification. A new number may then be entered if desired.

To program a "one time only" roaming call, allow the **RAD-AMP** to answer and enter the access code **without** a preceding *****. The **RAD-AMP** will beep once prompting the user to enter a roaming phone number. Enter the number you wish the unit to dial and hang up. The **RAD-AMP** will then disconnect and call the new phone number.

Note: A *****, **#**, or a **pause** can NOT be the first digit in the roaming dialing string.

Product Support Line...(715) 386-8666

Fax Back Line...(715) 386-4345

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