

Exhibit F - Modifications to Equipment Measurement

Maxon America, Inc.
LAU1900
FCC ID# F3JLAU1900

Equipment Modifications

No modifications were made to the **Maxon America, Inc. LAU1900 Wireless Local Loop Modem** during the testing program in order to meet the FCC Part 24, Subpart E Intentional Transmitter criteria.

Exhibit G - User's Manual

Maxon America, Inc.

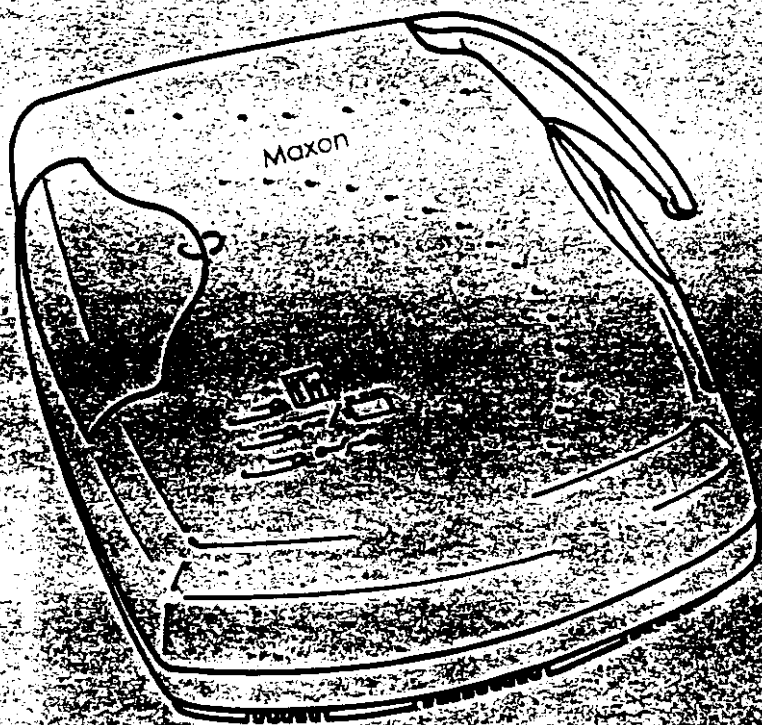
LAU1900

FCC ID# F3JLAU1900

Instructions to User

The required information to be supplied to the user of the **Maxon America, Inc. LAU1900 Wireless Local Loop Modem**, per §15.21 FCC rules is included as part of this Exhibit.

Maxon



Maxon SAU-800
User's Guide

INTRODUCTION

Your new MAXON ~~SAU-800~~ is designed to provide quality sounding voice communications to other people using almost any regular wire-line telephone in areas where normal 'wired' telephone service is not available. By using the same technology as digital cellular telephones, your SAU-800, in conjunction with a cellular service provider, replaces the traditional wire-line service with a state of the art wireless telephone service.

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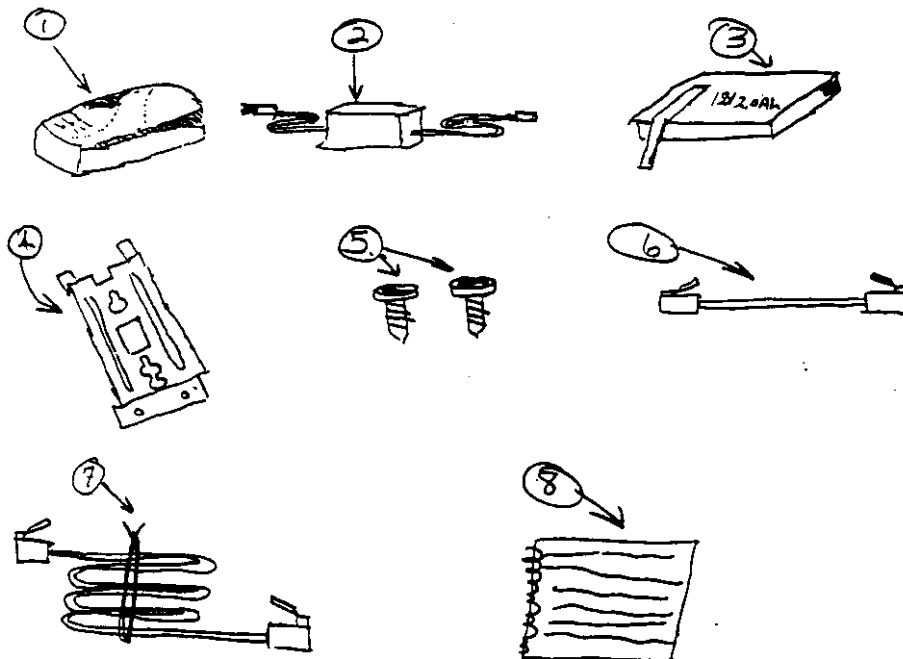
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GETTING STARTED

Make sure that the following items are enclosed in your SAU-800 box:

1. ~~SAU-800~~ unit
2. AC power supply
3. 12V battery
4. Wall mounting bracket
5. Screws for bracket (2 M4x6mm self-tapping, phillip head screws)
6. 8" (20.3cm) telephone cable for wall mounting
7. 6' (1.83m) telephone cable for desktop use
8. This user's guide
9. Warranty card (not shown).

PRELIMINARY



If any parts are missing, please contact your service provider or dealer.

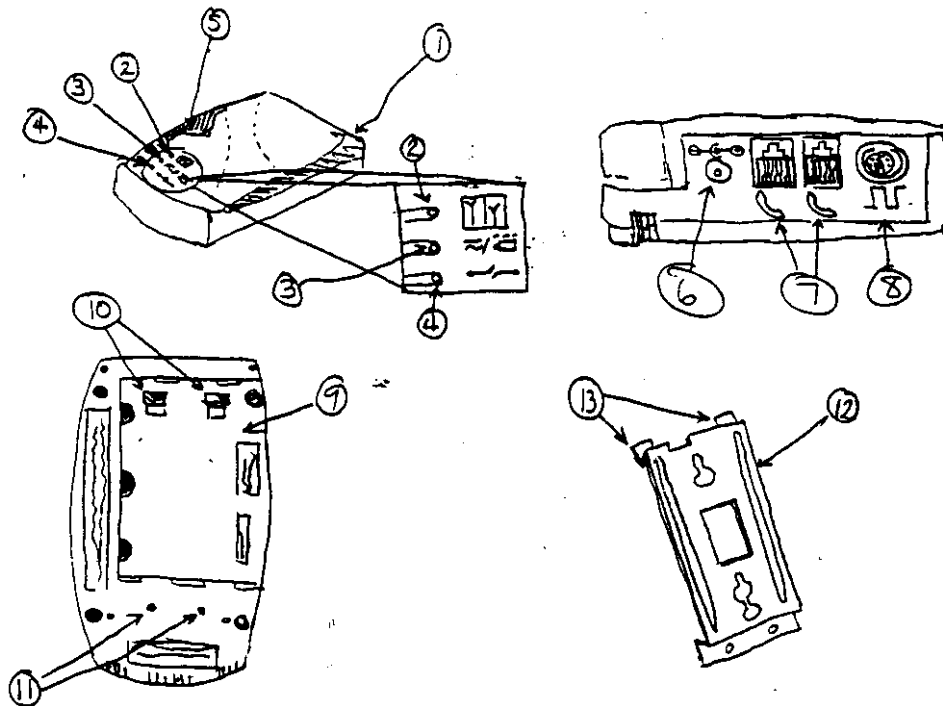
For your convenience, please keep the ~~SAU-800~~ original carton and packing material in case of a return or needed warranty work.

Note: Please read through this entire manual before starting the installation and use of your ~~SAU-800~~. If you have any questions concerning the installation or use of your ~~SAU-800~~, please contact the dealer where you purchased your ~~SAU-800~~.

GETTING TO KNOW YOUR SAU-800

1. Antenna
2. Signal LED
3. AC/Battery LED
4. Disruption LED
5. SIMM Card Cover (not used at this time)
6. Power connector
7. Two RJ-11 Modular Jacks
8. Service Port (to be used only by your service provider or dealer).
9. Battery door cover
10. Bracket Prong Recesses
11. Wall Mounting Bracket screw holes
12. Wall Mounting Bracket
13. Bracket Prongs

PRELIMINARY



FCC NOTICE (pending approval)

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate this equipment.
- Re-orient or relocate the receiving antenna of the device displaying the interference.
- Increase the separation between this equipment and the receiver.
- Connect this equipment into an AC outlet on a circuit different from that to which the receiver is connected.
- Contact your service provider or dealer or an experienced radio/TV technician for help.

WARRANTY INFORMATION

Please see the enclosed warranty card for warranty information for your ~~5211-000~~.

FOR YOUR RECORDS

Please record the following information for warranty and in case your ~~5211-000~~ is stolen or lost:

Date of Purchase: _____

Where Purchased: _____

Serial Number: _____

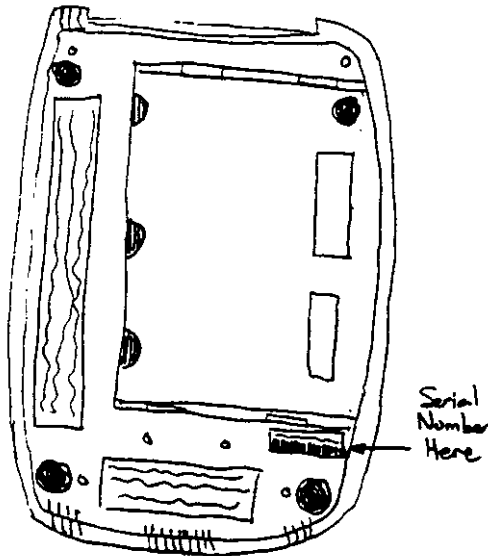
Attach sales receipt here.

SERIAL NUMBER

Whenever you call the network operator or service provider with questions about your ~~Safe 300~~, they will need the serial number of your ~~Safe 300~~. This is printed on the label attached to the back of the ~~Safe 300~~ on a label above a bar code (see figure below). An ideal time to record the serial number of your ~~Safe 300~~ would be when installing the ~~Safe 300~~ for the first time. Record the serial number in the back of this guide, and store this guide (along with your sales receipt) in a safe place separate from the ~~Safe 300~~ for future reference.

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SECURITY

If your ~~SAU-800~~ is ever lost or stolen you must report it to your network operator or service provider as soon as possible so that they can prevent your ~~SAU-800~~ from unauthorized use. This is important as you may be liable for the cost of unauthorized calls until your ~~SAU-800~~ is reported lost or stolen. The network operator or service provider will need the serial number of your ~~SAU-800~~ in order to prevent it from unauthorized use.

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SAFETY

Personal Safety

Your ~~SAU-800~~ is basically a radio transmitter and receiver. When it is powered (either from the AC power supply or from the internal battery) it receives and transmits radio frequency (RF) energy and the system handling your calls controls its power level. It may transmit RF energy even when you are not actively placing a call in response to data sent by the service provider or in response to incoming calls. The design of the ~~SAU-800~~ complies with national safety guidelines with respect to human exposure and RF energy. However, you can choose to limit RF exposure even further by locating the ~~SAU-800~~ in a room, or closet, remote from the areas where your telephones are located.

Furthermore, your ~~SAU-800~~ internally uses voltages/currents that could pose possible electric shock hazards, which could result in bodily injury. For your safety, do not attempt to open the ~~SAU-800~~ for any purpose other than replacing the battery (refer to *Battery Installation and Battery Removal*) or determining the serial number of your ~~SAU-800~~ (refer to *SERIAL NUMBER*).

The ~~SAU-800~~ has several slots and openings on the enclosure that are provided to protect it from overheating by providing adequate ventilation. In order for adequate ventilation to be provided, these slots and openings must never be covered or blocked. To prevent blocking these slots and openings, do not place the ~~SAU-800~~ on a bed, sofa, rug, or other similar surface, nor place anything on the ~~SAU-800~~. Furthermore, do not push any object through these slots and openings as the object may touch dangerous voltage points or cause damage to the ~~SAU-800~~ which could result in risk of fire or electrical shock.

Finally, you need to unplug the ~~SAU-800~~ from the wall outlet and remove the internal battery, and contact your service provider or dealer for service of the SAU-800 whenever one or more of the following has occurred:

1. When the AC power supply cord (either the cord that plugs into the ~~SAU-800~~ or the cord that plugs into a wall outlet) is damaged or frayed.

2. If liquid has been spilled into the ~~SAT-800~~.
3. If the ~~SAT-800~~ has been exposed to water or rain.
4. If the ~~SAT-800~~ has experienced a severe, physical shock and the cabinet has been damaged.
5. If the ~~SAT-800~~ exhibits a distinct change in performance that is not documented in these instructions.
6. If the ~~SAT-800~~ does not operate normally according to these instructions, and the troubleshooting guide has not solved the problem, do not attempt to service the ~~SAT-800~~ yourself, as this could result in risk of fire or personal injury.

Dangerous Operating Environments

IT IS RARE, BUT YOUR ~~SAT-800~~ OR ATTACHED PHONES AND ACCESSORIES COULD GENERATE SPARKS. THEREFORE, YOU SHOULD NOT LOCATE THE ~~SAT-800~~ IN AN AREA WITH A POTENTIALLY EXPLOSIVE ATMOSPHERE SINCE ANY SPARK COULD CAUSE AN EXPLOSION OR A FIRE RESULTING IN BODILY INJURY, OR EVEN DEATH.

DO NOT STORE FLAMMABLE GAS, FLAMMABLE LIQUID, OR EXPLOSIVES CLOSE TO THE ~~SAT-800~~.

CONSTRUCTION CREWS OFTEN USE REMOTE-CONTROL RF DEVICES TO SET OFF EXPLOSIVES, SO DO NOT USE THE ~~SAT-800~~ IN AREAS WHERE BLASTING OPERATIONS ARE IN PROGRESS.

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE ~~SAT-800~~ TO RAIN OR ANY TYPE OF MOISTURE.

SAU-800 INSTALLATION AND CONNECTION

The SAU-800 is designed to provide telephone-like service in areas where normal wire line telephone service is not available or where the installation of additional telephone wire lines are not considered practical.

Existing Telephone Service

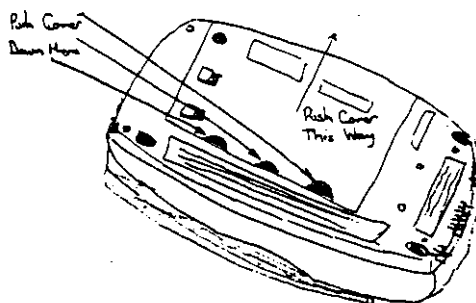
The SAU-800 is intended to be used to provide voice communications using regular, wire-line telephones without a wire-line service provider. It can also be used to provide additional lines in a house or business that already have wire-line service. However, the SAU-800 cannot be tied into lines that already have existing wire-line or wireless telephone service. If the SAU-800 is tied into these existing telephone lines, it will disrupt the SAU-800's capability of providing telephone service as well as disrupting the other telephone service.

To test for an existing telephone service, plug a telephone into a wall jack in the house or business that you are wanting to use the SAU-800. Follow the telephone's instructions for placing a call, listening for a dial tone. If no dial tone is heard while trying to place a call, the SAU-800 can be used. If a dial tone is heard, you already have some type of telephone service. Contact your service provider or dealer for instructions on what you should do in this situation.

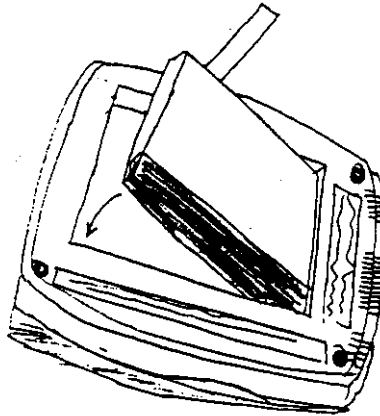
Battery Installation

Before installing the ~~SAT-100~~, you need to install the battery into the ~~SAT-100~~.

1. Insure that nothing is connected to the ~~SAT-100~~.
2. Place a soft cloth on a flat work surface, such as a table.
3. Turn the ~~SAT-100~~ upside down onto a soft cloth and orient the ~~SAT-100~~ such that the three semi-circular/ridged cover release latches are toward you.
4. Remove the battery cover by depressing the semi-circular/ridged cover release latches and pushing the cover away from you. It should move toward the edge opposite you. Slide the cover completely out.



5. Turn or rotate the battery so that the silver terminals on the battery will align with the battery terminals located in the battery compartment.
6. Then, first inserting the end of the battery closest to the terminals into the compartment, while also pulling gently on the battery strap (so that it will not be bunched up on the side of the battery), press the battery into the compartment so it fits flush with the bottom of the housing.
7. Slide the battery cover in place (making sure that the strap lays flat on the battery) and make sure the latches lock into place.



Battery Charging

The ~~S-1100~~ has a built-in battery charger. It will automatically restore a fully discharged battery to nearly full charge within 24 hours of AC power being restored or applied. No external charger is necessary.

CAUTION:

1. Avoid battery terminal short circuits (in other words, DO NOT let anything metal touch the two silver terminals on the battery at the same time). A fully charged battery can supply a very large current (more than 100 amps) which create a large amount of heat resulting in burns, smoke, or even fire.
2. DO NOT expose the battery to open flame.
3. DO NOT disassemble the battery. The batteries contain dilute sulfuric acid which could damage eyes, skin or clothing and result in loss of eyesight or burns.
4. The battery contains lead and should be recycled or disposed of properly. Contact your service provider or dealer for details.
5. Only use approved batteries (YUASA OR YUASA-EXIDE Model NP2-12). Using other batteries will invalidate your warranty and may cause damage or injury as well.

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Where to Install The SAU-800

Also before installing the SAU-800, you need to determine where you want to install it. The SAU-800 can be used on a flat horizontal surface, such as a desktop, table, etc. It can also be mounted on a wall. However, you should consider the following in determining where to install your SAU-800:

1. Do not place the SAU-800 on an unstable cart, table, stand, etc. The SAU-800 may fall and be damaged.
2. Place the SAU-800 near an AC electrical outlet, or wherever AC power is available.
3. If you wish to use the SAU-800 to drive your house or business telephone lines, place the SAU-800 by a modular telephone wall jack that is connected to other modular telephone jacks within your house or business.
4. Do not place the SAU-800 by anything that generates a great amount of heat, such as radiators, baseboard heaters, portable heaters, space heaters, ovens, fireplaces, etc. Placement of the SAU-800 by these locations could possibly damage the exterior enclosure and effect the performance of the SAU-800.
5. Do not place the SAU-800 near liquids, for example near sinks, kitchen counter-tops, kitchen tables, bath-tubs, swimming pools, in wet basements, etc.
6. Do not place the SAU-800 in direct sunlight, such as by a window. Direct sunlight can cause the exterior finish to fade, and possibly cause the SAU-800 to malfunction.
7. Do not place the SAU-800 where the temperature will be below -15°C ($+5^{\circ}\text{F}$) or above $+50^{\circ}\text{C}$ ($+122^{\circ}\text{F}$). Temperatures beyond these ranges could possibly damage the SAU-800.
8. It is recommended not to place the SAU-800 by a television set. Although every effort has been made for the SAU-800 to not cause interference on a television, interference is still possible.
9. Use of cordless telephones with the SAU-800 is permissible. However, you may want to keep the cordless telephone base and handset away from the SAU-800, as they may generate interference toward each other.
10. Computers can some times cause interference to the SAU-800. If the sound quality of your SAU-800 degrades when switching on a computer, move the SAU-800 further away from the computer (i.e. case, monitor, etc.). You may also want to plug the SAU-800's AC power supply into another outlet that is different from the computer.
11. Microwave ovens can sometimes generate interference to the SAU-800. If the sound quality of your SAU-800 degrades when switching on a microwave oven, move the SAU-800 further away from the oven. You may also want to plug the SAU-800's AC power supply into another outlet that is different from the oven.
12. If possible, try to place the SAU-800 in the highest place that is practical and convenient. Do not place the SAU-800 in a basement, if possible.
13. If you use any type of radio transmitters, such as citizen band radios, amateur radio, etc., it is recommended not to place the SAU-800 by these radios or their antennas. You may also want to plug the SAU-800's AC power supply into another outlet that is different from the radio transmitter.

Modular Jack Requirements

The ~~SAU-800~~ uses two RJ-11 type modular jacks (An RJ-11 jack can be seen below). These types of jacks are very convenient for connecting and disconnecting phones to your ~~SAU-800~~, and connecting the ~~SAU-800~~ to an existing telephone network in your house or business. However, it is possible that where the ~~SAU-800~~ is to be used, another type of jack or even bare wire connections could be used instead. If this is the case, please contact the dealer where you purchased your ~~SAU-800~~ or your local service company for the appropriate adapters and instructions for their use.



Desktop Installation

Installing your ~~SAU-800~~ on a desktop is very easy. Simply place the SAU-800 on any flat, horizontal, stable surface, such as a desktop or table. Then proceed to the section entitled *Connecting the ~~SAU-800~~ to Your Telephone(s)*.

Wall-Mount Installation

Before installing the ~~SAU-800~~ on a wall, make sure that you have already installed the battery (refer to *Battery Installation*).

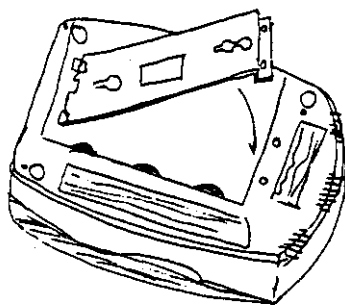
For the ~~SAU-800~~ to be mounted on a wall, a telephone wall plate must already be installed (it is not included with the ~~SAU-800~~). If you do not have a wall plate, and wish to mount your ~~SAU-800~~ on the wall, you will need to contact a general contractor to run the telephone wire and install the wall plate.

Note: The ~~SAU-800~~ is heavier than most telephones. It is highly recommended that the above mentioned wall-plate be secured to the wall with anchor bolts, or other such means of making an extremely secure attachment of the wall-plate to the wall.

For this installation, you will need a small, phillips head screwdriver.

1. Place a soft cloth on a flat surface, such as a table.
2. Place the ~~SAU-800~~ upside down on the cloth, such that the grills on the front of the ~~SAU-800~~ are facing you.

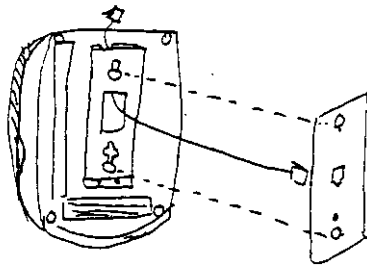
- PRELIMINARY
3. Take the wall-mounting bracket in hand. On one end of the bracket you have a flat surface with two small holes. This is the bottom of the bracket. On the other end you will see two small, rectangular prongs. This is the top of the bracket. Place these prongs into the top of the battery cover into the prong recesses, and let the other end of the bracket touch the bottom portion of the ~~SAT-800~~.



4. Line the holes in the bottom part of the bracket with the holes in the ~~SAT-800~~.
5. Using the screws that came with the ~~SAT-800~~, place the screws into holes on the ~~SAT-800~~ through the holes in the bracket, and screw in the screws until the bracket is secure to the ~~SAT-800~~.

Note: Do not use any other screws other than what is included in your package. If you lose the screws, however, you may use two M4, self-tapping phillips head screws of lengths between 5-8mm, but absolutely no longer than 8mm.

6. Taking the ~~SAT-800~~ bracket assembly in hand, insert the supplied short telephone cable through the small opening in the top of the bracket (between the prongs). Then, pull the telephone cable through the rectangular opening in the middle of the bracket.
7. Plug the end of the telephone cable that is now placed in the middle opening of the bracket into the wall plate.



8. Gently pulling up on the free end of the telephone cable, take up the slack of the cable, and slip the mounting holes of the bracket over the wall plate posts.
9. Slide the ~~SALE 800~~ firmly into place by pushing gently down (you will feel the ~~SALE 800~~ stop moving when it is locked into position).
10. Insert the free end of the telephone cable into one of the RJ-11 jacks on the top of the ~~SALE 800~~.

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Connecting the ~~SALE 800~~ to Your Telephone(s)

The ~~SALE 800~~ may be connected to up to 4 Ringer Equivalency Number (REN) loads. The actual number of telephones which may be connected, however, depends upon the load each telephone provides. Telephone manufacturers are required by FCC regulations to stamp the value of the telephone load on the telephone themselves (usually the bottom) and these numbers usually appear as follows: "REN:1.0B" or "REN:0.3A". It may also appear as "RINGER EQUIVALENCE: 1.0A". You can ignore the 'A' or 'B' designations and only count the actual number values shown. Make sure that after adding up the RENs on all the phones, the count does not exceed 4.0.

To connect the ~~SALE 800~~ in a business, or residence, is relatively easy. The following diagram shows a typical installation for two phones:

1. Determine the location where the ~~SALE 800~~ will be installed (see *Where to Install the ~~SALE 800~~*).
2. Install the ~~SALE 800~~ (see *Desktop Installation or Wall-Mount Installation*).

3. Verify that the included antenna on the ~~SAH-900~~ is pointing up (vertically). If you are using an external antenna, connect the antenna connector to the ~~SAH-900~~.
4. Connect the AC power supply adapter plug into the POWER jack on the back of the ~~SAH-900~~, then plug the AC power supply into an AC Wall Outlet.

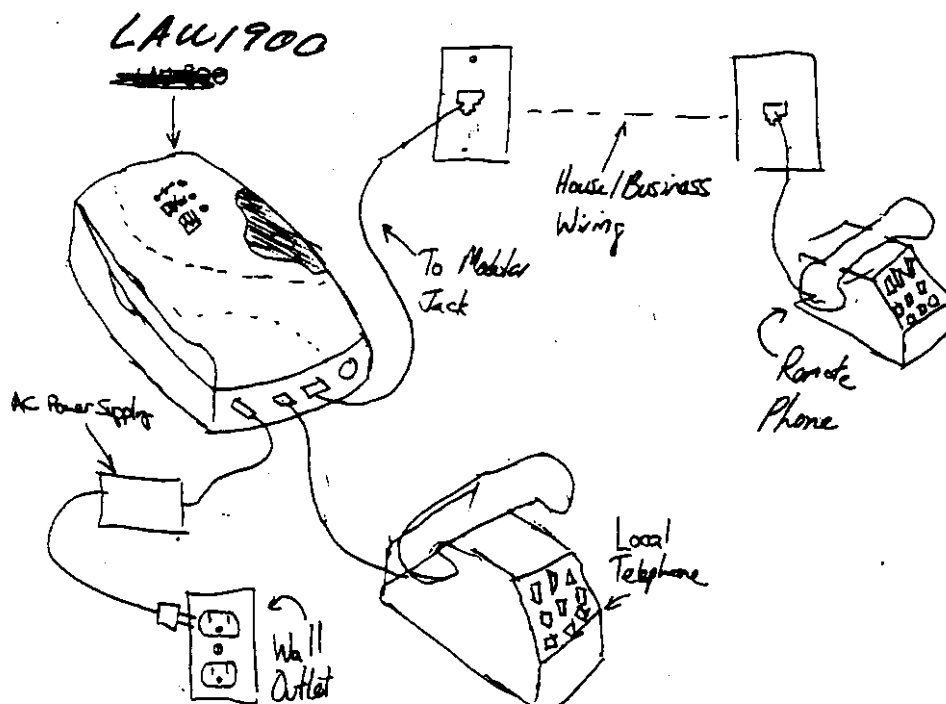
▲! Warning: Use only the AC power supply that came with the ~~SAH-900~~. Use of any other AC power supply could damage the ~~SAH-900~~ and void your warranty.

▲! Warning: Make sure that the AC power supply voltage input of the power supply provided with your ~~SAH-900~~ matches the AC voltage in your house or business. If you are not sure, contact a qualified electrician.

▲! Warning: Do not overload electrical wall outlets and electrical extension cords as this can result in the risk of fire or electrical shock.

▲! Warning: Place the AC power supply cord where it will not be abused by people walking on it, pets chewing on it, etc.

5. Using standard RJ-11 modular jack connectors, connect the ~~SAH-900~~ to a telephone or modular wall jack using common two-wire or four-wire flat telephone cable. (This will have already been done in the wall-mount installation).



The longest length of cabling for which the ~~SAT-100~~ has been designed is 1000 feet (305 meters). This should be sufficient for most installations. However, if your wiring is longer than 1000 feet, you may experience some audio problems with your telephone(s).

Note: Do not allow anything to rest on telephone cords attached to the ~~SAT-100~~. Do not locate the cord where the cord can be abused by persons walking on it, pets chewing the cord, etc.

6. After installing the ~~SAT-100~~, follow the instructions of one of the attached telephones to place a call, but do not dial a number. If you hear a dial tone within a few minutes of power-up, the ~~SAT-100~~ is properly connected and has detected the local network service provider. You may begin making and receiving telephone calls.
7. If you hear a BEEP - BEEP - BEEP - etc. the ~~SAT-100~~ has also been connected properly, but has not located a network service provider. Adjust the antenna and/or move the ~~SAT-100~~ to try to find an area of maximum RF reception. If you are still unable to receive a dial tone you should contact your service provider for assistance.
8. If you don't hear any sounds coming from the telephone, follow the telephone's instructions for placing a call, and listen to the receiver while pressing some of the number keys on the telephone. If you do not hear any tones coming from the telephone speaker the problem could be a faulty cable or connector, or the ~~SAT-100~~ may not be powered (dead or missing battery and no power from the AC/DC adapter). If all of these items have been checked and you still have no tones coming from the telephone you should return it to your service provider for service and/or assistance.

~~SAT-100~~ OPERATION

LED Indicators

Your ~~SAT-100~~ has three LEDs (light emitting diodes) to let you know the status of your ~~SAT-100~~ unit. They are:

SIGNAL: This LED is an indicator of the received signal strength from a cellular base station that communicates with your ~~SAT-100~~. It has three possible states:

1. When the SIGNAL LED is constantly lit, your ~~SAT-100~~ and the cellular base station should have no difficulties communicating with each other.
2. When the SIGNAL LED is blinking, this means that communication between the ~~SAT-100~~ and the cellular base station is working, but marginal. This means that you should still be able to place and receive calls, but could possibly experience occasional dropouts in your conversation and even occasional dropped calls. (If you are using the included antenna, and experience this condition frequently, you may

want to talk to your service provider about getting an externally mounted antenna to improve your reception.)

3. When the SIGNAL LED is not lit, this means that your ~~SAT-800~~ is not communicating with the cellular base station. This means that you will not be able to place a call or receive a call on your ~~SAT-800~~.

AC/BATTERY: This LED is an indicator of the power source being presently used by the ~~SAT-800~~. It has three possible states:

1. A constantly lit AC/BATTERY LED indicates that AC power is being used to power the ~~SAT-800~~.
2. When the AC/BATTERY LED is blinking, this indicates that no AC power is present, and the ~~SAT-800~~ is being powered by the internal battery.
3. When the AC/BATTERY LED is off, this indicates that the ~~SAT-800~~ is not powered (i.e. no AC power is provided, and either the internal battery has been completely discharged or is not installed). In this condition, the ~~SAT-800~~ will not be able to provide any telephone service.

DISRUPTION: This LED is an indicator of a malfunction of the ~~SAT-800~~. It has two possible states:

1. When the DISRUPTION LED is lit, the ~~SAT-800~~ has definitely experienced a malfunction. Service is required for the ~~SAT-800~~. Call your dealer for instructions on returning the ~~SAT-800~~. You will receive a RMA (Return Merchandise Authorization) number. Send the ~~SAT-800~~ to your dealer with the RMA number on it at the address the dealer specifies. Please send the ~~SAT-800~~ for repair in the original carton and packing material. If your original carton and packing material is not available, ask your dealer for instructions on how to pack your ~~SAT-800~~ so that damage will not occur during shipment.
2. When the DISRUPTION LED is not lit, one of three things is true:
 - a) The ~~SAT-800~~ is working properly and is being powered by either AC power or the battery.
 - b) The ~~SAT-800~~ is not powered by AC power or the battery. The ~~SAT-800~~ cannot operate without some type of electrical power.
 - c) The ~~SAT-800~~ is being powered by AC power or the battery, but the ~~SAT-800~~ is still not working properly. The disruption LED can indicate most, but not all problems that could occur with the ~~SAT-800~~.

Making Calls

Making calls on a telephone connected to the ~~SAT-300~~ is nearly as simple as placing a call on a standard wire-line service. Simply follow the telephone's instructions for placing a call and press the keys for the number you wish to call. Once you have entered all the digits, press the <#> key to send the dialed number to the service provider. At this point operation is identical to a wire-line phone.

Note: In order for a telephone to be used to place calls with the ~~SAT-300~~, the telephone must be a touch-tone phone only, OR a phone that is switchable between "TONE" and "PULSE". On the phones that are switchable between "TONE" and "PULSE", the phone must be set to "TONE", not to "PULSE" or "ROTARY". "PULSE" only phones cannot be used with the ~~SAT-300~~, with the exception of receiving calls. However, you will not be able to use advanced features such as CALL FORWARDING, 3-WAY CALLING, etc., or any other feature that requires you to dial a number when using these "PULSE" type phones. For your convenience, we recommend using only phones that use only "TONE" or that are "TONE/PULSE" switchable.

Receiving Calls

Receiving calls on a telephone connected to the ~~SAT-300~~ is identical to receiving calls on a standard wire-line service. When a telephone that is connected to the ~~SAT-300~~ rings, simply follow the telephone's instructions for receiving a call.

Advanced Features

Your service provider may support other features such as CALLER ID, CALL WAITING, CALL FORWARDING, 3-WAY CALLING and other similar features. If you are interested in using these features contact your service provider for details.

DATA COMMUNICATIONS/MODEMS/FAXES/ETC.

Your ~~SAT-300~~ will provide quality voice communications, but it will not support data communications, such as using an analog modem or facsimile machine ("fax" machine). If you need these types of services, contact your service provider for details and possible alternative solutions.

THE BATTERY, AND WHEN TO REPLACE IT

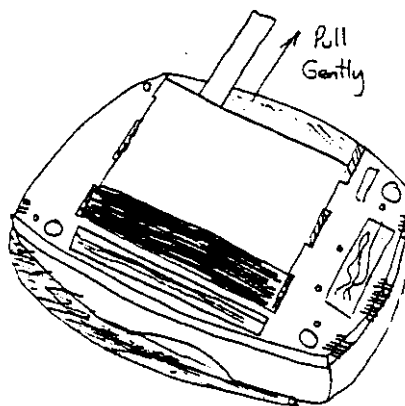
Your ~~SAT-800~~ comes with a sealed lead-acid battery for supplying backup power in the event of an outage, or brownout, of normal AC power. Under normal usage conditions your battery can be used for up to four years. The battery allows you to place or receive a call even after AC power has been lost for a short time (known as backup time). The actual backup time will vary with the age of the battery, how many times it has been charged and discharged, and distance from the telephone service provider's RF transmitter/receiver. However, you should consider replacing the battery if any one or more of the following occurs:

1. The battery is older than four years.
2. While AC power is removed from the ~~SAT-800~~ (by unplugging the AC power supply from the wall outlet), the battery indicator does not blink every 2-3 seconds.
3. No sound can be heard out of a telephone connected to the ~~SAT-800~~ when the AC power supply adaptor is not powered (by unplugging the AC power supply from the wall outlet).
4. It can no longer provide 1 hour of talk-time following a full charge (a battery will reach a near-full charge condition after AC power has been on for 24 hours continuously). To test this condition, the AC power supply must be disconnected from the wall outlet after the AC power supply has been powered for 24 hours or longer and connected to the ~~SAT-800~~, and the ~~SAT-800~~ should be used to carry a conversation with another party for more than one hour without interruption.
5. When it no longer can provide at least 16 hours of standby-time following a full charge. Again, to check this condition, the AC power supply must be disconnected from the wall outlet after the AC power supply has been powered for 24 hours or longer and connected to the ~~SAT-800~~. Without placing a call, verify that the battery LED continues to blink for 16 hours after disconnecting the AC power supply from the wall outlet.

Battery Replacement

1. Before you begin, make sure that you have purchased a new battery.
2. Place the antenna down into the down position, or if you are using an external antenna, disconnect the antenna.

- PRELIMINARY**
3. Disconnect the ~~SAU-800~~'s AC power supply from the wall outlet, and then from the back/top of the ~~SAU-800~~.
 4. Disconnect all telephone lines that are plugged into the back/top of the ~~SAU-800~~.
 5. If you have installed your ~~SAU-800~~ using the desktop installation, skip to step 14. Otherwise, you will need a small, Phillips head screw driver.
 6. Place a soft cloth on a flat work surface, such as a table.
 7. Holding onto the top of the ~~SAU-800~~ with one hand, push the bottom of the ~~SAU-800~~ up gently until you feel it unlock.
 8. Pull the ~~SAU-800~~ gently toward you. It should come off the wall-plate.
 9. Unplug the short telephone cable that is plugged into the wall plate.
 10. Remove the short telephone cable from the bracket by pulling the cable through the small opening in the bracket between the prongs. Save this cable, you will need it to reinstall the ~~SAU-800~~.
 11. Place the ~~SAU-800~~ on the soft cloth, with the bracket side up and the screws toward you.
 12. Unscrew the screws that are holding the bracket in place.
 13. Move the end of the bracket where the screws were located up slightly, and then pull the bracket toward you to remove the bracket.
 14. Turn the ~~SAU-800~~ upside down onto a soft cloth (this has already been done if you had a wall-mount installation) and orient the SAU-800 such that the three semi-circular/ridged cover release latches are toward you.
 15. Remove the battery cover by depressing the semi-circular/ridged cover release latches while pushing the cover away from you. It should move toward the edge opposite you. Slide the cover completely out.
 16. Remove the battery. This is easily accomplished by holding onto the ~~SAU-800~~ with one hand while still laying on the table, and gently pulling the exposed battery strap straight up until the battery comes loose from the battery compartment. (If for some reason the battery strap is not available, is damaged, etc., the battery can also be removed by turning the ~~SAU-800~~ over while holding your hand under the battery with the battery facing the floor and then gently tapping the edge of the ~~SAU-800~~ onto a table top until the battery slides out. Do not drop the battery as this may cause it to leak acid).



17. Follow the instructions in the section entitled *Battery Installation*, starting with step #5, to install your new battery.
18. If you had installed your ~~SAU-800~~ on a wall, follow the instructions in the section entitled *Wall-Mount Installation* to reattach the bracket and mount the ~~SAU-800~~ to a wall-plate.
19. Follow the instructions in the section entitled *Connecting the ~~SAU-800~~ to Your Telephone(s)* to reconnect your ~~SAU-800~~.
20. Properly dispose of the used battery by taking it to a recycling plant.

CLEANING THE ~~SAU-800~~

To remove dust from the ~~SAU-800~~, a soft, dry cloth or feather duster may be used. To clean the ~~SAU-800~~, first unplug AC power supply from the wall outlet. Then a soft cloth dampened (not soaked) with a mild soap/water solution may be used. Do not use any other chemicals on the ~~SAU-800~~, such as dust sprays, cleaners, etc. These chemicals could damage the finish on the exterior of the ~~SAU-800~~. After you have finished cleaning the ~~SAU-800~~, do not forget to plug the AC power supply back into the wall socket.

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution(s)
AC/Battery LED Off	AC power supply not connected	Check that the AC power supply is connected to the ~~SAIL-300~~ and a working outlet.
	AC Outlet not powered	1. Check that the AC outlet the ~~SAIL-300~~ is plugged into is working with another AC powered device, such as a working lamp. If the lamp does not work, the outlet is faulty. Contact an electrician. 2. A power outage has occurred, and either the internal battery has not been installed or is completely discharged. Wait for electrical service to be restored.
	Internal Battery Not Installed	The ~~SAIL-300~~ cannot operate without an internal battery during a power outage or without AC power. Install the battery.
	Battery is discharged	The ~~SAIL-300~~ can only operate from the internal battery for a maximum of 20 hours. Either replace the discharged battery with a freshly charged battery, or wait for electrical service to be restored.
	Battery is older than four years	The battery used in the ~~SAIL-300~~ has a shelf life of around 4 years. Replace the battery.
AC/Battery LED Blinking	AC power supply not connected	Check that the AC power supply is connected to the ~~SAIL-300~~ and a working

AC Outlet not powered

AC outlet

1. Check that the AC outlet the ~~SAT-300~~ is plugged into is working with some other AC powered device, such as a working lamp. If the lamp does not work, the outlet is faulty. Contact an electrician.

2. A power outage has occurred. The ~~SAT-300~~ is operating off of internal battery power. Wait for your electrical service to be restored.

1. Antenna is not in the "up" (vertical) position.

2. Antenna not connected.

3. Move the ~~SAT-300~~ around to see if the LED stops blinking and turns on constantly, i.e. try different locations in your house or business.

4. An external antenna is needed. Contact your service provider for assistance.

Signal LED Blinks All the Time
Poor Reception

Signal LED Off

No Power to the ~~SAT-300~~

Make sure that the ~~SAT-300~~ has power by looking at the AC/Battery LED

Poor Reception

1. Antenna is not in the "up" (vertical) position.

2. Antenna not connected.

3. Move the ~~SAT-300~~ around to see if the SIGNAL LED starts to blink, or turns on constantly, i.e. try different locations in your house or business

No Sound From a Problem With Telephone
Connected Telephone

4. An external antenna is needed. Contact your service provider for assistance.

No Power to the ~~SAU-800~~

Check the telephone's instruction manual for possible solutions. Try a known good telephone.

Make sure that the ~~SAU-800~~ has power by looking at the AC/Battery LED

Phone not connected to ~~SAU-800~~ either directly or through a modular jack

Connect the phone to the ~~SAU-800~~ directly or connect the ~~SAU-800~~ to a modular jack in the house and connect the phone to another modular jack on the same circuit.

Telephone cable defective

Try a known good telephone cable.

Modular jack wired incorrectly

Try plugging the telephone directly into the ~~SAU-800~~

You have the ~~SAU-800~~ plugged into a live PSTN line.

Make sure that the only connection to the ~~SAU-800~~ is going directly to a known working telephone. If the telephone works, you may have a telephone line already.

No dial tone, just a BEEP, BEEP, BEEP, ...

After the ~~SAU-800~~ is turned on, it goes into registration process

It can sometimes take up to one minute for the ~~SAU-800~~ to register with the base station. Wait for one minute.

Poor Reception

1. Antenna is not in the "up" (vertical) position.
2. Antenna not connected.
3. Move the ~~SAU-800~~ around to see if the SIGNAL LED stops blinking, i.e. different locations in your house or business.
4. Need external antenna.

Telephone(s) never ring	Telephone's ringer not on	Contact your service provider for assistance. Follow your telephone's instructions for turning on its ringer
Telephones do not ring well	Too many telephones connected to your ~~SAU-800~~	Add up the RENs on the back of each telephone connected to your ~~SAU-800~~ . If this total number is greater than 4.0, you will have problems ringing all of the phones properly. Make the number less than 4.0 by removing some of the telephones or changing to telephones with smaller RENs.
	You have not received any telephone calls	Call your service provider and ask them to give you a call to check your service.
	Too many telephones connected to your ~~SAU-800~~	Add up the RENs on the back of each telephone connected to your ~~SAU-800~~ . If this total number is greater than 4.0, you will have problems ringing all of the phones properly. Make the number less than 4.0 by removing some of the telephones or changing to telephones with smaller RENs.
Poor sound in your telephones, or person on other end of conversation complains of poor sound	You have too many telephones off hook.	You will achieve the best audio quality with a single telephone off hook.
	Too much cable is connected to the ~~SAU-800~~	The ~~SAU-800~~ can only drive 1000 feet (305 meters) of telephone cable.
	Your ~~SAU-800~~ is located close to electronic devices such as microwave ovens, radios, hair driers, etc.	Move the ~~SAU-800~~ away from these devices and make sure that the ~~SAU-800~~ 's AC power supply is powered by a different outlet than the

PRELIMINARY

You can receive calls, but you cannot place calls, even though a dial tone is heard

The person on the other end of the phone conversation is having problems.

Pulse or rotary phone is being used to place a call

other electronic device.

Call somebody else and see if you hear the same noise and/or problem.

The ~~SAT-800~~ will only accept calls from a touch-tone compatible phone.

Make sure that the phone you are using is touch-tone only or switched to touch-tone.

If the above troubleshooting guide does not solve your problem with the ~~SAT-800~~, contact your service provider or dealer. They will be glad to help you resolve your problem.

ACCESSORIES/OPTIONS

The following accessories/options may be ordered from your dealer or service provider:

1. Internal battery and battery strap (Maxon #xx)
2. External antenna kit (Maxon #xx)