

POWER manager

10 OUTLET POWER MANAGEMENT SYSTEM

TX500



OWNER'S MANUAL



TRIBUTARIES®

Bringing it all **together**

The TRIBUTARIES® Power Manager carries a 3 year parts and labor limited warranty.

THREE YEAR LIMITED WARRANTY

Scope and Duration of Warranty

Subject to the terms and conditions stated below, Gordon J. Gow Technologies, Inc., ("Gow") warrants that this Product shall be free from defects in workmanship or materials for a term of (3) years from the date when it was purchased from an Authorized Gow Dealer.

What Gow Will Do Under the Warranty

In the event of any defect covered by this warranty, Gow shall without charge provide all parts, materials, and labor necessary to restore the Product to its original specifications, and shall return the Product to its owner at Gow's expense. In the alternative, Gow may at its sole option either replace the Product without charge, or if replacement is not commercially practicable or repair or replacement cannot be accomplished within a reasonable time, Gow may refund the purchase price of the Product, subject where appropriate to reasonable depreciation for use in accordance with applicable laws, in full satisfaction of its warranty obligations. Gow will undertake to complete the repair and return of the Product as soon as circumstances permit, unless prevented by causes beyond its reasonable control.

LIMITATIONS ON GOW'S OBLIGATIONS UNDER THE WARRANTY

GOW'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE THE PRODUCT, OR AT ITS OPTION REFUND THE PURCHASE PRICE, AS PROVIDED FOR HEREIN ABOVE. GOW DOES NOT WARRANT AGAINST, NOR SHALL IT BE LIABLE FOR, ANY OF THE FOLLOWING: REMOVAL OR INSTALLATION CHARGES, SHIPPING EXPENSES TO GOW OR ITS AUTHORIZED SERVICE FACILITY, PROPERTY DAMAGE OF ANY KIND OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND.

Note: Some states do not allow exclusion or limitation of consequential damages, so the foregoing exclusions may not apply.

Exclusions:

Parts and Occurrences That Are Not Covered by the Warranty

This Warranty does not cover any of the following: (A) glass panels, cabinetry, trim, or any other appearance items (except) where they are defective at the time of original sale and the Product is delivered for repair within the first thirty (30) days thereafter; (B) batteries, or failure of or damage to the Product caused by batteries; (C) failures arising from catastrophe, misuse, neglect, or failure to properly connect and operate the Product in accordance with the accompanying instructions; (D) failures arising from improper installations of the Product or incompatibility of other components in the system of which the Product is a part; (E) failures of any kind in Products (I) which have been purchased from other than an Authorized Gow Dealer, or (II) which evidence any tampering, alteration, or attempted servicing by anyone other than Gow or an Authorized Gow Service Facility, or (III) which are not delivered or shipped to Gow or an Authorized Gow Service Facility within the three (3) year Warranty term; and Gow shall have no liability or obligation of any kind with respect to any of the foregoing types of failures.

What the Owner Must Do To Obtain Service Under This Warranty

To obtain service under this warranty, the owner must at the owner's expense (I) arrange for any necessary de-installation of the Product, and (II) deliver or ship the Product, properly packaged, prepaid, and insured, to Gow at the address below, or to an Authorized Gow Service Facility. In addition, the owner must provide evidence that the Product is at the time of delivery within the scope of this Warranty, by either having completed and submitted to Gow on a timely basis the Warranty Registration Card, if one is included with the Product, or by including the original or a legible copy of the dated sales receipt with the Product when submitted for repair. All Products must also be accompanied by the owner's name, address, and telephone number.

CONGRATULATIONS

Thank you for purchasing the TRIBUTARIES® Power Manager. The TRIBUTARIES® Power Manager is one of the most advanced and complete power management systems available. With the TRIBUTARIES® Power Manager integrated into your home entertainment system, you may rest assured that your audio/video components have a clean power supply free of signal degrading noise and distortion. Designed with the latest surge suppression technology, your equipment will perform at optimum performance protected from damaging spikes and harmful surges.

In addition to power protection and performance enhancement, the TRIBUTARIES® Power Manager provides triggering options which can control your system's startup and shut-down processes. With a few simple steps, your TRIBUTARIES® Power Manager will control all of your home entertainment system components. To assist you in achieving further system improvements, TRIBUTARIES® offers a comprehensive line of audio, video, digital, speaker and power cables and accessories providing unparalleled quality, performance, and reliability. For a free downloadable catalog visit our website at www.tributariescable.com.

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IMPORTANT SAFETY INSTRUCTIONS - PLEASE READ FIRST!

Your TRIBUTARIES® Power Manager represents the latest in power management and protection technology. However, like any electronic device, an inappropriately or improperly installed device may not perform as intended. By following a few common sense precautions, your Power Manager will give you a lifetime of worry-free performance.

The following safety precautions apply to this and all TRIBUTARIES® Power Managers.

EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to an individual.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the unit.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS INSIDE.

GENERAL

IMPORTANT NOTE



All statements in this owner's manual that refer to the "TRIBUTARIES® Power Manager" are applicable to the TX500. Features or procedures that are specific for either unit are clearly noted.

1. Please read the safety instructions in this owner's manual prior to operating the TRIBUTARIES® Power Manager.
2. Keep these safety instructions for future reference when operating the TRIBUTARIES® Power Manager.
3. Heed all warnings contained in this operating manual and/or printed on the TRIBUTARIES® Power Manager.
4. Follow all instructions.
5. **WARNING:** To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
6. Caution: to prevent electric shock do not use this (polarized) plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure.
7. When not in use: Unplug the TRIBUTARIES® Power Manager during lightning storms or when unused for long periods of time.
8. Only use accessories specified by TRIBUTARIES®.

INSTALLATION

9. Heat: Do not place the TRIBUTARIES® Power Manager near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce considerable amounts of heat.
10. Water and moisture: Do not use the TRIBUTARIES® Power Manager near water, such as a bathtub, washbowl, or swimming pool.
11. Dripping or splashing: The TRIBUTARIES® Power Manager should not be exposed to dripping or splashing. Objects filled with liquids, such as vases, should not be placed on the TRIBUTARIES® Power Manager.
12. Carts and stands: When the TRIBUTARIES® Power Manager is placed or mounted on a stand or cart, the unit should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart to overturn or fall.
13. Cleaning: Clean the TRIBUTARIES® Power Manager only with a dry cloth.
14. Ventilation: Provide at least 1" below and at least 3" above the TRIBUTARIES® Power Manager.

ELECTRIC POWER

15. Power sources: The TRIBUTARIES® Power Manager should only be connected to power sources specified in the owner's manual and marked on the unit.
16. AC power cord: Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
17. Grounding prong: Do not defeat the safety purpose of the polarized or grounding-type plug.

A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, please consult a qualified electrician for replacement of the obsolete outlet.

18. Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
19. To completely disconnect this equipment from the AC mains, disconnect the power supply cord plug from the AC receptacle on the rear panel of the TRIBUTARIES® Power Manager.
20. If you use rooftop devices such as satellite dishes, antennas, or any other component with wire that connects to your TRIBUTARIES® Power Manager, be sure the wire(s) is properly grounded. Use grounding techniques specified in Section 810 of the National Electrical Code (NEC), ANSI/NFPA 70 (in Canada, Part 1 of the Canadian Electrical Code). This protects against voltage surges and static charges. Do not place any part of an antenna near overhead power lines, or any other power circuit. Do not touch any power line or power circuit. Doing so may cause you severe physical injury and possibly result in death.

CARE OF EQUIPMENT

21. In general, the only cleaning necessary for your TRIBUTARIES® Power Manager is a light dusting. Unplug your component from the wall outlet before cleaning it. Do not use any type of liquid or aerosol cleaners.
22. Do not operate your TRIBUTARIES® Power Manager if liquid of any kind is spilled onto or inside the unit. Do not operate your TRIBUTARIES® Power Manager near rain or water that's spilled or openly exposed (e.g., bathtub, kitchen or bathroom sink).
23. Unplug the power cord from the AC power outlet when left unused for a long period of time

REPAIR OF EQUIPMENT

24. Do not attempt to service the TRIBUTARIES® Power Manager. Refer all servicing to qualified service personnel. Servicing is required when the TRIBUTARIES® Power Manager has been damaged in any way, such as liquid spilled or objects that have fallen into the TRIBUTARIES® Power Manager, the TRIBUTARIES® Power Manager has been exposed to rain or moisture, does not operate normally, or has been dropped.
25. No User Serviceable Parts Inside. If, for any reason, your TRIBUTARIES® Power Manager is not operating properly, do not remove any part of the unit (cover, etc.) for repair. Unplug the unit and consult this owner's manual for warranty and service information.
26. When replacement parts are required, be sure the service technician has used replacement parts specified by TRIBUTARIES® or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electrical shock, or other hazards.
27. Upon completion of any service or repairs to this product, ask the technician to perform safety checks to determine that the product is in proper operating condition prior to use.
28. Please see the warranty information on the back cover of this owner's manual if you have any difficulty operating the TRIBUTARIES® Power Manager.
29. Please read and observe the safety points at all times.

WARNING!

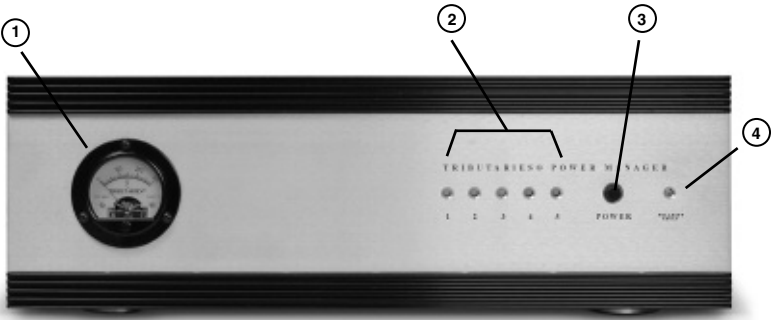


Servicing: There are no user-serviceable parts inside a Power Manager product. Please contact an authorized TRIBUTARIES® dealer for information on service and repairs.

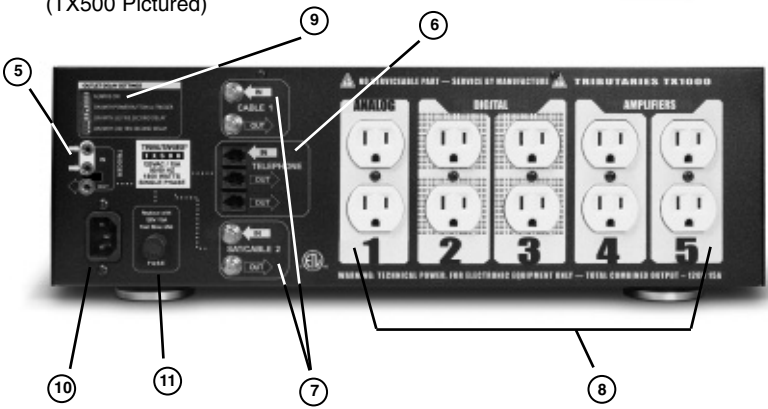
IMPORTANT NOTE



The TRIBUTARIES® Power Manager is certified to comply with UL® Standard 6500 Second Edition, for use with Audio/Video and Musical Instrument apparatus for household, commercial and similar general use. **IT IS NOT DESIGNED FOR, NOR INTENDED TO BE USED WITH HOUSEHOLD OR COMMERCIAL APPLIANCES.**



(TX500 Pictured)



- ① Voltage Meter
- ② Front Panel Indicators of Outlet Status
- ③ Power Button
- ④ Polarity Fault Indicator
- ⑤ Trigger Inputs and Output
- ⑥ Phone Line Inputs and Outputs
- ⑦ Cable/Satellite Input and Outputs
- ⑧ AC Outlets
- ⑨ Turn-on Delay Programming Module
- ⑩ AC Input Receptacle
- ⑪ Fuse, 15A 3AG

INTRODUCTION

The TRIBUTARIES® Power Manager supplies all of the necessary features and functionality for today's high-end audio/video components. Years of research and development have provided the most superior power management system to protect your valuable equipment.

FEATURES AND TECHNOLOGIES

IMPORTANT NOTE



All statements in this owner's manual that refer to "TRIBUTARIES® Power Manager" are applicable to the TX500. Features or procedures that are specific for either unit are clearly noted.

AC LINE SURGE PROTECTION

For the most effective and long-lasting AC surge protection, the TRIBUTARIES® Power Manager is designed with Silicon Avalanche Diodes (SAD). The SADs are highly modified silicon diodes that can absorb up to 20 amperes of current, and recover within 2000 nanoseconds while still maintaining 100% effectiveness for years of safe trouble-free operation. Designed to function with "Half-Wave Protection™", the SADs will protect connected components from an over-voltage that occurs within one-half of an AC line cycle. This design assures you that in the event of an AC line spike, your components will be protected. Rest assured that there are no metal oxide varistors (MOV) used in this product. These devices are used in many competitive products and have been known to fail without warning leaving your expensive components completely unprotected.

RF INPUT SURGE PROTECTION

The TRIBUTARIES® Power Manager provides surge protected RF inputs and outputs for Cable TV, Satellite Receivers, and RF Antenna Systems. The RF inputs have the bandwidth capability to pass satellite, cable or standard terrestrial TV signals without loss.

PHONE LINE SURGE PROTECTION

The TRIBUTARIES® Power Manager provides a surge protected telephone input and two telephone outputs. This permits the connection of one incoming phone line to two devices such as a Cable Box and a Satellite Receiver.

10 PROGRAMMABLE OUTLETS

Each pair of the 10 outlets provided on the rear panel can be individually programmed for one of 4 different operational states: always-on; on, when the front panel POWER BUTTON is pressed or the triggering circuit is activated; on, with a 5 second delay; or on, with a 10 second delay. Programming is easily accomplished by dip-switch settings located on the rear panel. This system provides you with the ability to choose whether you would like your components, such as a Cable Box or a Satellite receiver, to be "always-on", or have a sequenced turn-on for those components that are normally off after use. Processor driven equipment, such as Preamplifiers, Audio and Video Processors, DVD and CD Players, Video Displays, D-VHS Recorders, etc, should be turned on first, followed by Receivers and Power Amplifiers. Programming a sequenced turn-on of all your components prevents a possibly damaging instantaneous AC line power surge that would result if all components were turned on simultaneously.

EXTERNAL DC POWER-ON TRIGGER

External Triggering is available through 3.5mm mono jacks. Providing a DC trigger voltage at this point allows the unit to be turned on by an external device. Two TRIGGER INPUT jacks are provided, as well as one TRIGGER OUTPUT jack, for daisy chaining a second TRIBUTARIES® Power Manager or TRIBUTARIES® Power Strip. This feature permits the remote turn-on of the TRIBUTARIES® Power Manager by one or two other components provided they have trigger outputs.

AC LINE FILTERING and CONDITIONING

TRIBUTARIES® Power Manager provides AC line filtering and conditioning never before offered in a consumer product. TRIBUTARIES® Power Manager engineering features three sets of 15 ampere Twin-T Noise Filters designed to protect both sides of the AC line. Featuring extremely sharp roll-off slopes in excess of 12dB per octave, TRIBUTARIES® Twin-T Noise Filters assure that any noise on the incoming AC line will be eliminated. By effectively isolating the AC outlets on the rear panel from one another, the Twin-T Filters also act as a "Noise Firewall" preventing unwanted, harmful noise from being generated by connected components or from passing to other connected components. Separate filters are provided for ANALOG, DIGITAL, and AMPLIFIER Power.

FRONT PANEL INDICATORS OF OUTLET STATUS

Blue LED indicators are provided on the front panel of the TRIBUTARIES® Power Manager to identify the selection and timing of each outlet pair. Each numbered blue LED represents a numbered pair of rear-panel outlets. As each outlet pair turns on, the corresponding blue LED will illuminate. Conversely, when the outlet pair turns off, the corresponding blue LED will turn off.

VOLTAGE METER

A voltage meter is provided on the front panel to indicate the voltage of the incoming AC line. The meter is illuminated with a soft blue light that may complement other lighted components in your system. The meter will only illuminate when the POWER BUTTON or the TRIGGER function is used to turn on the TRIBUTARIES® Power Manager. The meter will always register a correct reading providing the unit is connected to an operating wall outlet.

UL® 6500 LISTING

The TRIBUTARIES® Power Manager has been issued a certification by Electronic Testing Laboratory (ETL) for compliance with UL® Standard 6500 Second Edition w/revisions and CAN/CSA-C22.2. This ensures that when operated according to this manual, these products meet all the safety requirements of the National Electrical Code.

1800 WATT / 15 AMPERE RATING

The TRIBUTARIES® Power Manager is designed to deliver 1800 Watts (15 Amperes at 120 Volts AC) of clean, filtered and surge suppressed power to your audio & video system components.

POLARITY FAULT INDICATOR

The illumination of the front panel blue POLARITY FAULT LED indicates that the white and black AC wires of the outlet into which the TRIBUTARIES® Power Manager is connected are reversed. **DO NOT OPERATE YOUR TRIBUTARIES® Power Manager WITH A LINE PROBLEM. IF THE POLARITY FAULT LED DOES ILLUMINATE, DISCONNECT THE UNIT IMMEDIATELY.**

INSTALLATION OVERVIEW

The following is an overview for installing your Power Manager product.

- Unpack all the contents of the TRIBUTARIES® Power Manager carton.
- Plan your system and lay out all of the equipment that will be connected to the TRIBUTARIES® Power Manager.
- Place the TRIBUTARIES® Power Manager in the location where it will be used, being sure to follow both the safety precautions listed on pages 3-5, and the placement recommendations on pages 4 and 12. DO NOT plug the unit in yet.
- After planning the turn-on sequence of each component (see page 12), plug in each of the components. You may want to make a note on paper listing the components that are connected to each outlet.
- Connect any devices with coaxial RF outputs to the F-connectors.
- Attach the phone line to the RJ-11 terminals (for satellite/cable TV installations).
- Program the turn-on delay module (page 13 through 14).
- With all of the attached components in the OFF position, plug the supplied AC Power Cable into the TRIBUTARIES® Power Manager, then, into the wall outlet.
- With the TRIBUTARIES® Power Manager OFF, attach remote triggering cables (if applicable).
- Test for proper operation.

PACKAGE CONTENTS

- (1) TRIBUTARIES® Power Manager
- (1) Owner's Manual with Limited Warranty / Registration Card
- (1) TRIBUTARIES® IECAC 6 ft / 15 amperes 14 AWG Power Cable
- (1) Set of Rack Mounting Hardware
- (1) TRIBUTARIES® Screwdriver

PLANNING YOUR SYSTEM

Think about which components need to work together, and place them in close proximity to one another. You may also want to consider putting frequently handled components in the most convenient locations. Decisions about triggering options for your TRIBUTARIES® Power Manager will depend on many factors including the type of components in the system and whether they are self-controlled or part of a multi-room or whole-house system. By carefully planning the system's architecture in advance, your TRIBUTARIES® Power Manager can be integrated into any configuration you choose.

IMPORTANT NOTE



All components in a system must be connected to a Power Manager in order for the system to be protected from electrical disturbances and to achieve maximum noise and AC line conditioning benefits. This includes AC power cables, coaxial connections, and telephone cables used with pay-per-view systems. Failure to do this will degrade system performance and leave it vulnerable to electrical damage.

PLACEMENT

It is recommended that the TRIBUTARIES® Power Manager be placed in the same location as your other audio/video components so it can be easily reached when manually operating the other controls in the system. There should be a clear line of sight between the operator and the unit to allow easy user feedback of system status. The TRIBUTARIES® Power Manager should be placed on a flat, stable shelf or platform.

The TRIBUTARIES® Power Manager can also be rack-mounted. To prepare the TRIBUTARIES® Power Manager for rack-mounting, remove the rack-mounting hardware from the plastic wrap. Unscrew the 8 large #2 Philips-head screws on the left and right side (4 screws on each side) of the chassis. Position one piece of the hardware against the chassis lining up the four screw holes in the hardware with the four holes in the side of the chassis. Using the four removed screws, fasten the hardware onto the chassis. Repeat the process for the other side of the chassis. The TRIBUTARIES® Power Manager is now ready to be rack-mounted.

PROGRAMMING YOUR AC CONNECTIONS

CONNECTING YOUR COMPONENTS TO THE TRIBUTARIES® Power Manager

IMPORTANT NOTE



You may connect the AC plug of any of your components into any outlet on the rear panel of the TRIBUTARIES® Power Manager. All outlets provide the same level of filtering and surge protection.

Using the guidelines in the following paragraphs, connect the AC power cables from your components to the appropriate outlets on the TRIBUTARIES® Power Manager.

Plug the AC from your analog devices, such as, AM/FM Tuners, VCRs, etc, into the ANALOG outlets on the rear of the Power Manager. Plug the AC from your digital devices such as, DVD player, AV Processor, etc, into the DIGITAL outlets. Plug the AC from your Receiver or Amps into the AMPLIFIER'S outlets. To minimize speaker pops and thumps during system power-up, program the AMPLIFIER'S outlets to turn on 5 seconds after the DIGITAL outlets. For details, see below.

Each outlet can be programmed for one of four different turn-on states:

1. Always-on, or
2. On, when the POWER BUTTON is pressed or when the TRIGGER INPUT is activated, or
3. On, with a 5 second delay, or
4. On, with a 10 second delay.

Determine which components will be "Always-On". Generally, these will be any components that have a clock-readout such as a VCR, Cable TV Tuner, Set-Top Box, or Satellite Receiver. For programming convenience, connect the AC plugs from all the "Always-On" components to adjacent pairs of AC receptacles on the TRIBUTARIES® Power Manager.

IMPORTANT NOTE



To successfully program the turn-on delay states, the TRIBUTARIES® Power Manager must be disconnected (unplugged) from the AC line.

PROGRAMMING THE TURN-ON DELAY STATES

The TURN-ON DELAY programming module, accessible through an opening in the rear panel of the TRIBUTARIES® Power Manager, contains 10 small levers, 2 for control of each rear panel AC outlet pair, numbered 1-5. Programming for each pair of AC outlets is accomplished by positioning the switch levers to either "A" or "B" for the appropriately numbered outlet pair. Positioning a switch lever to the left corresponds to an "A" setting. Positioning a switch lever to the right corresponds to a "B" setting. Consequently, each pair of switches, reading from top down, can be positioned as AA, AB, BA or BB. Each pair's positions corresponds to a specific state for the appropriate numbered outlet pair as follows;

AA - Always On

AB - On with Power Button or Trigger Input

BA - On with a 5 second delay

BB - On with a 10 second delay

To set the switch levers use a small pointed device such as the provided TRIBUTARIES® screwdriver.

Your TRIBUTARIES® Power Manager has been pre-programmed at the factory for this typical set-up of the TURN-ON DELAY module:

A	B	Outlet Pairs	
A	A	1	.....Outlet Pair 1 is set for Always-On (AA)
A	A	2	.....Outlet Pair 2 is set for Always-On (AA)
A	B	3	.....Outlet Pair 3 is set to turn on with POWER BUTTON or TRIGGER (AB)
B	A	4	.....Outlet Pair 4 is set to turn on with a 5 second delay (BA)
B	B	5	.....Outlet Pair 5 is set to turn on with a 10 second delay (BB)

After programming the TURN-ON DELAY module, connect the TRIBUTARIES® Power Manager to the AC line.

The TRIBUTARIES® IEC 15A, 14 AWG Power Cable included with your TRIBUTARIES® Power Manager is 6 feet long, terminated with a straight IEC connector on one end and a straight 3-prong NEMA AC plug on the other end. If you require a different length cable or one with right angle connectors, TRIBUTARIES® offers IEC to AC Cables in several lengths, terminated w/four combinations of straight and right angle connectors. Contact your TRIBUTARIES® Dealer for more information.

Upon connection to the AC line, the TRIBUTARIES® Power Manager will initialize and complete its programming.

MAKING CONNECTIONS

IMPORTANT NOTE



All components in a system must be connected to a Power Manager in order for the system to be protected from electrical disturbances and to achieve maximum AC line conditioning benefits. This includes AC power cables, coaxial connections, and telephone cables used with pay-per-view systems. Failure to do this will degrade system performance and leave it vulnerable to electrical damage.

CABLE TV AND/OR SATELLITE TV CONNECTIONS

The TRIBUTARIES® Power Manager provides two (2) RF inputs & outputs for the protection of cable TV, satellite TV and RF antenna systems. Both inputs provide the same protection.

For optimum performance, all cables used to connect to the RF inputs of the TRIBUTARIES® Power Manager should be multi-shielded with a 75 ohm impedance. Contact your TRIBUTARIES® Dealer for more information.

Connect the incoming cable TV line to the CABLE TV 1 INPUT of the TRIBUTARIES® Power Manager. Connect the CABLE TV 1 OUTPUT of the TRIBUTARIES® Power Manager to the Cable Box input. Connect the cable from the Satellite Dish or 2nd Cable Box to the SATELLITE/CABLE TV 2 INPUT of the TRIBUTARIES® Power Manager. Connect the SATELLITE/CABLE TV 2 OUTPUT of the TRIBUTARIES® Power Manager to the Satellite Receiver or Cable Box Input.

PHONE CONNECTIONS

The TRIBUTARIES® Power Manager is designed with three (3) standard RJ11 telephone jacks. One is for an incoming phone line. The other two jacks are for connecting to a satellite receiver and/or a standard telephone.

Using a standard phone cable terminated with RJ11 connectors, connect the incoming phone line from a wall jack to the PHONE INPUT on the TRIBUTARIES® Power Manager. Connect the PHONE OUTPUT 1 to the phone input on your Satellite Receiver or Cable Box. PHONE OUTPUT 2 can be used to connect to a 2nd Satellite Receiver, Cable Box, or standard telephone.

TRIGGER CONNECTIONS

IMPORTANT NOTE



With trigger cable(s) connected, once you turn on the TRIBUTARIES® Power Manager using the TRIGGER INPUT(S) the POWER BUTTON will become inoperative. To re-instate the operation of the POWER BUTTON, the TRIBUTARIES® Power Manager's power cord must be disconnected from the AC wall receptacle, the trigger cable(s) must be disconnected or the component(s) that provide the trigger signal(s) must be turned off.

The TRIGGER INPUT provides a connection that permits up to two (2) components that have 5-12 volt DC trigger outputs to command the TRIBUTARIES® Power Manager to turn on. Simply connect a TRIBUTARIES® DCT 100 Trigger Cable or Cables from the trigger output of the component(s) in the system that will be the source of the triggering signal to TRIGGER 1 INPUT and/or TRIGGER 2 INPUT of the TRIBUTARIES® Power Manager. If the TRIBUTARIES® Power Manager TRIGGER INPUTS are connected to two (2) units, turning either one on will turn on the TRIBUTARIES® Power Manager. Consequently, for the TRIBUTARIES® Power Manager to turn off, both triggering components must be turned off.

The TRIBUTARIES® Power Manager rear panel also provides a TRIGGER OUTPUT that can be used to connect to another TRIBUTARIES® Power Manager.

OPERATING THE TRIBUTARIES® POWER MANAGER

A. WITH THE TRIGGER SYSTEM NOT CONNECTED

If you have not connected cable(s) to the TRIGGER IN, continue with this part. If you have connected cable(s) to the TRIGGER IN skip to part B.

1. With all the AC cables from the system components plugged into the appropriate outlets on the rear panel of the TRIBUTARIES® Power Manager and the TRIBUTARIES® Power Manager connected to an AC wall outlet, observe the front panel LED indicators.

- a) If the blue LED labeled “POLARITY FAULT” is illuminated, immediately disconnect the TRIBUTARIES® Power Manager from the AC wall outlet. The illuminated LED indicates a reversal of the “hot” and “neutral” wires in the wall outlet to which the TRIBUTARIES® Power Manager was connected. **DO NOT OPERATE THE POWER MANAGER UNDER THIS CONDITION.** Contact a licensed electrician to repair the outlet.
- b) If you have programmed one or more outlets to be “Always On”, check that the LED(s) corresponding to the programmed outlet number(s) are illuminated indicating that they are “live”.
- c) Press the POWER BUTTON once.

IMPORTANT NOTE



If the POWER BUTTON is pressed twice within 10 seconds, the TRIBUTARIES® Power Manager will immediately power down all outlets except those that were programmed “Always On”.

- d) This will initiate the TRIBUTARIES® Power Manager processor sequence. The front panel LEDs denoting the rear AC outlets, should illuminate according to your programming of the TURN-ON DELAY module.
- e) To turn your TRIBUTARIES® Power Manager off, simply push the POWER BUTTON once. The rear panel outlets will turn off in the reverse sequence of the turn-on programming. The front panel LEDs will follow the turn off sequence.

IMPORTANT NOTE



Operating the TRIBUTARIES® Power Manager using the POWER BUTTON defeats the function of the TRIGGER INPUT. To re-establish the use of the TRIGGER INPUT, the AC power cable must be disconnected from the AC wall receptacle for 15 seconds. After reconnecting the AC power cable, the TRIGGER INPUT will become operative.

B. WITH THE TRIGGER INPUT SYSTEM CONNECTED

IMPORTANT NOTE



Once you turn on the TRIBUTARIES® Power Manager using the TRIGGER INPUT(S) the “POWER BUTTON” will become inoperative. To re-instate the operation of the POWER BUTTON, the TRIBUTARIES® Power Manager power cord must be disconnected from the AC wall receptacle for 15 seconds, the trigger cable(s) must be disconnected or the component(s) that provide the trigger signal(s) must be turned off.

For best results, use TRIBUTARIES® DCT100 Trigger Cables. With a trigger cable connected from one or two components to the TRIBUTARIES® Power Manager and both components powered off, you are ready to initiate the system power-up procedure. Simply turn on one of the components that is connected by a triggering cable to the TRIBUTARIES® Power Manager. When that component turns on, it will start the TRIBUTARIES® Power Manager processor sequence. The front panel LEDs will illuminate according to the programming of the TURN-ON DELAY module.

If you have only one component connected to the TRIGGER IN of the TRIBUTARIES® Power Manager, turning that component off will initiate the turn off program. The rear panel outlets will turn off in the reverse sequence of the turn on programming. The front panel LEDs will follow the turn off sequence.

NOTE: If you have two components connected to the TRIGGER IN of the TRIBUTARIES® Power Manager, powering either one “on” will power the TRIBUTARIES® Power Manager “on”. However, to power the TRIBUTARIES® Power Manager “off”, both connected components must be powered “off”.

C. WITH THE TRIGGER OUTPUT SYSTEM CONNECTED

The TRIGGER OUT jack can be used to connect the TRIBUTARIES® Power Manager to another TRIBUTARIES® Power Manager, power strip or another component that has a trigger input and operates when it senses a 5 VDC and 200ma triggering signal. For best results, use TRIBUTARIES® DCT100 Trigger Cables. When the originating TRIBUTARIES® Power Manager is powered-on using either the POWER BUTTON or the TRIGGER IN, a 5 VDC signal is generated. If the connected unit is configured properly, it will turn on when it senses the voltage generated by the originating TRIBUTARIES® Power Manager. Conversely, when the originating TRIBUTARIES® Power Manager generating the triggering signal is powered off, the connected units will turn off.

IMPORTANT NOTE



It is not recommended to interconnect the AC function of 2-TX500s either together or to one another. If more than 10 outlets are required, install a 2nd Power Manager.

TROUBLESHOOTING

TRIBUTARIES® Power Manager does not power-up. There is no power to the connected equipment.

- Check that the unit is plugged in and that there is power at the wall outlet.
- Check the TRIBUTARIES® Power Manager's fuse located on the back panel. Replace if necessary.
- Disconnect the AC power cable from the back of the TRIBUTARIES® Power Manager or from the AC wall outlet. Wait 15 seconds and reconnect the AC power to the TRIBUTARIES® Power Manager and turn it on.

Trigger cable(s) are attached, but the TRIBUTARIES® Power Manager will not power up.

- First re-check the trigger cable(s) to ensure a positive connection. Then check that the trigger cable(s) is connected to one of the TRIGGER IN jacks on the TRIBUTARIES® Power Manager.
- If all connections are properly made and the TRIBUTARIES® Power Manager fails to respond, it is most likely that the trigger signal voltage is below 5 volts DC or the current is less than 50 milliamperes (ma).
- Check the trigger source to be sure that the signal is 5-12VDC and the current is at least 50ma.

The POLARITY FAULT light on the front panel of the TRIBUTARIES® Power Manager lights up.

- This indicates that the wall outlet has a line problem such as polarity inversion. This is common, especially in older homes.
- DO NOT operate the TRIBUTARIES® Power Manager with a line problem. Call your electrician to have the line repaired.

The fuse on the TRIBUTARIES® Power Manager continues to fail.

- Your TRIBUTARIES® Power Manager is equipped with a 15 Amp 3AG fuse to provide overload protection. This fuse will allow up to 1800 watts of power (120VAC@15A) to pass through the TRIBUTARIES® Power Manager to your components. If the fuse continues to fail after being replaced, there may be a short in the system. If no short is apparent, or the problem is intermittent, the failure of the fuse indicates that the components are drawing more than 1800 watts. Check with your TRIBUTARIES® Dealer or installer to see what other Power Managers may be used in addition to the TRIBUTARIES® Power Manager to provide sufficient power for your system.

There is an audible "thump," "click," or "pop," coming from the loudspeakers during the power-up function of the TRIBUTARIES® Power Manager.

- Many components will produce electronic "thumps," "clicks," or "pops," audible through the loudspeakers, when the system is initially turned-on. This occurs while the component's power supply "settles in" which usually takes a few seconds. This is common, and while annoying, it usually will not harm the loudspeakers. If you have a separate

Processor and Power amp(s), and you would like to minimize or eliminate “thumps,” “clicks,” and “pops,” connect the Preamplifier and/or A/V Processor to the DIGITAL outlet and the Power Amplifiers to the AMPLIFIER outlets. Then, program the TURN-ON DELAY module (page 12) so that AMPLIFIER outlets turn on either 5 seconds or 10 seconds after the DIGITAL outlets.

AC outlets don't turn on in the proper sequence.

- Disconnect the TRIBUTARIES® Power Manager from the AC wall outlet.
- Reprogram the TURN-ON DELAY module (page 12).
- Reconnect the TRIBUTARIES® Power Manager to the AC wall outlet and initiate the turn-on.

Power button does not operate.

- First, check the VOLTMETER on the front of the TRIBUTARIES® Power Manager.
- If the VOLTMETER reads between 110-125 volts, the unit is receiving the proper power.
- If the VOLTMETER reads less than 110 volts, check that the power cord is properly connected to the back of the TRIBUTARIES® Power Manager.
- If the VOLTMETER continues to read less than 110 volts contact your local TRIBUTARIES® Dealer for assistance.
- If a trigger cable or cable(s) are connected to the TRIGGER INPUT(S), first disconnect the trigger cable(s). Then, disconnect the power cord from the AC wall receptacle. Wait 15 seconds and reconnect the power cord to the AC wall receptacle.
- If the POWER BUTTON still does not operate, contact your local TRIBUTARIES® Dealer for assistance.

Programming does not hold its memory.

- Disconnect the TRIBUTARIES® Power Manager from the AC wall outlet.
- Reprogram the TURN-ON DELAY MODULE (page 12).
- Reconnect the TRIBUTARIES® Power Manager to the AC wall socket and initiate the turn-on.

TECHNICAL SPECIFICATIONS FOR THE TRIBUTARIES® POWER MANAGER

AC OUTLETS

Clamping Voltage	.....300 Volts
Response Time	.....Instantaneous [<1 nanosecond (<1 billionth of a second)]
Surge Current	.....400 Amperes
Line voltage	.....120VAC 15A, 50/60Hz
Protection Modes	.....Line to Ground, Neutral to Ground
EMI/RFI noise reduction	.....Up to 75dB (99.9%) 100KHz to 100MHz

RF INPUTS

Input Bandwidth	.....2.3GHz
Clamping level	.....90 Volts
Response time	.....100 Volts/microsecond
Peak current for 1 second	.....20 Amperes
Connections	.....Machined, gold-plated Female F-connectors with Teflon® Dielectric

PHONE INPUTS

Initial clamping level	.....48 Volts @1A
Fuse protection (tip and ring lines)	.....500ma
Connectors	.....RJ-11 modular phone jacks

TRIGGER CIRCUIT

Trigger Inputs	.....5-12VDC 50ma
Trigger Output	.....5VDC
Connectors	.....3.5mm mono jacks
Fuse	.....15A 3AG

PHYSICAL SPECIFICATIONS

Net Weight TX500	.....17 lbs. (8kg)
Dimensions (Including Faceplate & Feet)	17-1/8"W x 5-5/16"H x 12-5/16"D

PURCHASE INFORMATION

Model Purchased

Serial Number

Date Purchased

Dealer Name

Address

City/St/Zip

NOTES

What the Owner Must Pay For

As noted above, the owner must arrange and pay any expense for removing the Product from its installation and delivering it to Gow or the Authorized Gow Service Facility. Upon return of the Product to the owner following repair, it shall be the owner's responsibility to arrange and pay for any reinstallation which may be required. In addition, it shall be the owner's obligation to pay for any repairs made to Products for which the owner has neither completed and submitted (where one is included) the warranty Registration Card at the time of purchase nor included a legible copy of the original of the dated sales receipt with the Product when delivered for service, or which are otherwise subject to the exclusions noted above, at Gow's or its Authorized Service Facility's then current repair rates.

How to Learn Where the Nearest Authorized Gow Service Facility is, or Obtain Answers to Other Questions Concerning This Warranty

In order to learn the name and address of the nearest Authorized Gow Service Facility, obtain instructions for shipment of a covered Product to Gow, or obtain the answers to any other questions you may have concerning this Warranty, you may telephone Gow between the hours of 9:00 am and 5:00 pm Eastern Time, Monday through Friday, at 1.800.521.1596, fax 1.800.553.1366, or write to:

Service Department
Gordon J. Gow Technologies, Inc.
6448 Pinecastle Blvd., Ste. 101
Orlando FL 32809

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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ORLANDO FL 32809-9855



THANK YOU FOR PURCHASING TRIBUTARIES®. IF YOU HAVE ANY QUESTIONS OR COMMENTS, PLEASE CALL TOLL FREE 800.521.1596

To receive your free Limited Warranty Certificate fill in and mail the attached card. It is postage paid!

TRIBUTARIES® POWER MANAGER WARRANTY REGISTRATION FORM

Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Serial Number: _____ Date Purchased: _____
Store Name: _____ State: _____ Zip: _____
Comments: _____

SEND TRIBUTARIES® INFORMATION TO A FRIEND

Name: _____
Address: _____
City: _____ ST: _____ Zip: _____

This information will also be sent to you.

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