



# TriFlex™ II

Three-way self-powered two-channel sound reinforcement system

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Operating  
Manual





Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**CAUTION:** Risk of electrical shock — DO NOT OPEN!

**CAUTION:** To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

**WARNING:** To prevent electrical shock or fire hazard, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus. Before using this apparatus, read the operating guide for further warnings.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de “(voltaje) peligroso” sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

**PRECAUCION:** Riesgo de descarga eléctrica ¡NO ABRIR!

**PRECAUCION:** Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

**ADVERTENCIA:** Para prevenir choque eléctrico o riesgo de incendios, este aparato no se debe exponer a la lluvia o a la humedad. Los objetos llenos de líquidos, como los floreros, no se deben colocar encima de este aparato. Antes de usar este aparato, lea la guía de funcionamiento para otras advertencias.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

**ATTENTION:** Risques de choc électrique — NE PAS OUVRIR!

**ATTENTION:** Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

**AVIS:** Dans le but de réduire les risques d'incendie ou de décharge électrique, cet appareil ne doit pas être exposé à la pluie ou à l'humidité et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé sur celui-ci. Avant d'utiliser de cet appareil, lisez attentivement le guide fonctionnant pour avertissements supplémentaires.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

**VORSICHT:** Risiko — Elektrischer Schlag! Nicht öffnen!


**VORSICHT:** Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

**WARNUNG:** Um elektrischen Schlag oder Brandgefahr zu verhindern, sollte dieser Apparat nicht Regen oder Feuchtigkeit ausgesetzt werden und Gegenstände mit Flüssigkeiten gefüllt, wie Vasen, nicht auf diesen Apparat gesetzt werden. Bevor dieser Apparat verwendet wird, lesen Sie bitte den Funktionsführer für weitere Warnungen.

# IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** When using electrical products, basic cautions should always be followed, including the following:



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. 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 plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13.  Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Never break off the ground pin. Write for our free booklet "Shock Hazard and Grounding." Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. Note for UK only: If the colors of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
  - a) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
  - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
  - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
19. The on/off switch in this unit does not break both sides of the primary mains. Hazardous energy can be present inside the chassis when the on/off switch is in the off position. The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
20. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration Per Day In Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

**SAVE THESE INSTRUCTIONS!**

## TriFlex™ II

Thank you for purchasing the class D powered TriFlex™ II. The TriFlex II is a three-way self-powered two-channel sound reinforcement system. Based on a common subwoofer cabinet with a premium 15" woofer, and a pair of two-way satellite speakers with a 10" heavy-duty woofer and a RX™14 titanium diaphragm dynamic compression driver mounted on a 75° by 75° coverage Quadratic Throat Waveguide™ horn. The TriFlex II features a bi-amped power section that provides 500 watts peak power for the subwoofer and 250 watts peak power for each satellite speaker.

Input jacks provided are a balanced input XLR and a 1/4" phone combo jack, with a pair of RCA phono jacks available, and a Master volume control and a Sub volume control.

### Features

- 1000W Active Two-Channel Three-piece Speaker System
- One shared Subwoofer cabinet which houses the inputs and power amps
- Two two-way Satellite speakers with speaker pole stand adaptors
- Subwoofer has 15" woofer, with 500W peak available power
- Satellite speakers have 10" woofer, RX 14 1.4" compression driver tweeter
- 250W peak available power to each Satellite speaker
- Peavey's exclusive DDT™ compression on the Satellite power amps.
- System comes with two 15 foot speaker cables
- Protective slipcover with cable storage pockets and built-in Velcro retaining straps.
- Heavy-duty locking casters on Subwoofer cabinet for transport of system
- Satellite speakers nest on top of the Subwoofer, help ease transport
- Four-pin twist-lock connectors on amplifier outputs and Satellite inputs

### DESCRIPTION

The TriFlex II is a three piece, two-channel sound system, already tweaked and ready to go for sound reinforcement, DJ gigs, and various music playback duties. Consisting of a shared Subwoofer cabinet and a pair of Satellite speakers, the TriFlex II system has been pre-engineered for a balanced sound and a crisp, punchy presentation. The three-way effective performance that the system is capable of provides a clear sound at high output levels, with plenty of punchy bass.

The Subwoofer cabinet has a 15" heavy-duty woofer in it, as well as the system electronics, which consists of a preamp, electronic crossover, sub-sonic filter, and three power amps. Equipped with 3" heavy-duty locking casters, the Subwoofer cabinet can be rolled around with the two Satellite speakers nested on top. Once in position, you can remove the Satellite speakers, flip the Subwoofer over 90 degrees onto its rubber feet, and the electronics controls and inputs and outputs are now readily available on the top at the rear of the Subwoofer cabinet.

The sturdy Subwoofer cabinet construction of 18 mm MDF with internal bracing, and a tough black acrylic paint finish, paired with a 16 gauge perforated metal grille, provide good road-worthiness for years to come.

The amplifier is in a separate sub-enclosure in the Subwoofer cabinet, so the electronics are not exposed to the Subwoofer's air pressure and vibration.

Controls and Inputs/Outputs are across the rear top of the unit when it is oriented for use, with the amplifier heatsink on the back panel.

All controls and heatsinks are recessed with no knobs sticking out or sharp heatsink edges exposed.

The Satellite speakers consist of a custom 10" heavy-duty woofer and a Peavey RX14 1.4" titanium diaphragm compression driver tweeter on a Quadratic Throat waveguide horn. Equipped with a speaker stand pole mount, the Satellite speakers can be placed high up on a speaker stand to get the sound out into the audience cleanly. There is also a 45° angled section on the back side of the Satellite speakers so they can be used as floor monitors when laid on the appropriate side.

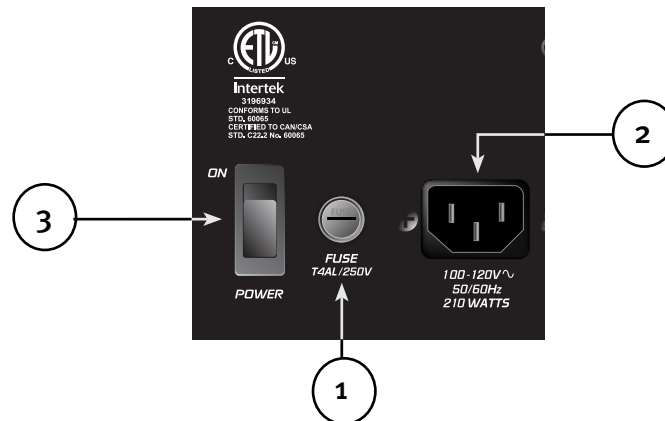
Two 15 foot 16 ga. speaker cables with the mating 4-pin twist-lock connectors on each end are supplied with the TriFlex II System to hook-up the Satellites to the TriFlex II System electronics in the Subwoofer cabinet.

Any good quality 1 3/8" diameter pole speaker stands can be used with the TriFlex II Satellite speakers, and there is a specific model of speaker stand available as an accessory that will fit into the free slipcover supplied with the TriFlex II, the model PP1 speaker stand, Peavey part number 03011200

## APPLICATIONS

The Peavey TriFlex™II System has a variety of applications such as DJ, sound reinforcement, public address, or karaoke. It can even be used as a pair of powered monitors by turning the Subwoofer level all the way down. A typical signal source for the line-level inputs of the Peavey TriFlex II would be a sound reinforcement mixing console (mixer) or the output from a CD player, MP3 player or tape deck.

## REAR PANEL BOTTOM



### FUSE (1)

The unit is AC power line fuse protected from overloads and fault conditions with a slow-blow 4.0 Amp 250V fuse. This fuse is located within the cap of the fuse enclosure just to the left of the ON-OFF switch. If the fuse fails, **THE FUSE MUST BE REPLACED WITH THE SAME TYPE AND VALUE IN ORDER TO AVOID DAMAGE TO THE EQUIPMENT AND TO PREVENT VOIDING THE WARRANTY** The fuse in the TriFlex II can be replaced with a time-delay type 5 x 20 mm size, 4 amp 250V rated fuse, which conforms to the international fuse classification "T4AL". In the USA, types GDC, GMC, 215, 218, and 477 cartridge-style 5 x 20 mm size fuses with a 4 amp 250V rating can be used. If the unit continues to blow replacement fuses, do not keep replacing them, it should be taken to a qualified service center for repair.



### IEC POWER CORD CONNECTION (2)

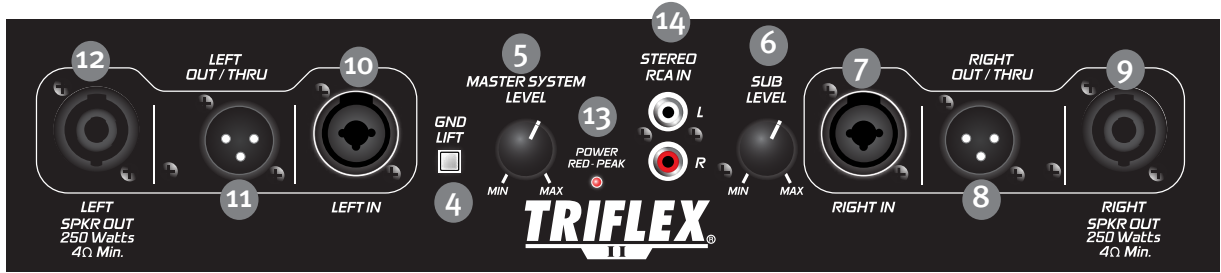
This receptacle is for the IEC line cord (supplied) that provides AC power to the unit. It is very important that you ensure the TriFlex II has the proper AC line voltage supplied. You can find the proper voltage for your TriFlex II printed next to the IEC line (power) cord on the rear panel of the unit.



Please read this guide carefully to ensure your personal safety as well as the safety of your equipment. Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always be sure that the mixer and all other associated equipment are properly grounded.

### ON-OFF SWITCH (3)

This rocker switch supplies AC power to the TriFlex II when switched to the ON position. The ON position is with the right side of the switch pushed "in" or nearly flush with the rear panel.



#### GROUND LIFT SWITCH (4)

Switches the XLR (7,10) PIN 1 (shield) from direct contact with ground in the event that hum occurs with the input cables connected. Push IN to lift the ground.

#### INPUTS, Left & Right (7,10)

The line-level input is of the medium impedance balanced type. Jack (7, 10) is a combo female XLR and 1/4" TRS connector.

#### INPUTS, Left & Right (14)

A pair of RCA phono jacks (14) wired in parallel with the above listed inputs.

The top or WHITE jack is the Left channel input, and the bottom or RED jack is the Right channel. Used to input a signal from a consumer type signal source, such as a CD player, Cassette deck or Radio.

#### MASTER SYSTEM LEVEL (5)

Controls the gain (level) of both the Left and Right input channels at the same time, of the entire powered stereo speaker system. It is used to directly set the system output level for a given input signal. It turns the level of both the Subwoofer AND the Satellite speakers up or down at the same time. Clockwise rotation increases the level, counter-clockwise rotation reduces it. The sound is full OFF when the control is rotated full CCW. When set to a 12 o'clock position, the gain will match well with many mixers and sound sources.

#### SUB LEVEL (6)

Controls the gain (level) of the Subwoofer ONLY, allowing the balance between the bass and the rest of the sound to be adjusted. When turned full CCW, the Subwoofer output is turned all the way OFF. When set to the 2 o'clock position, the Subwoofer output levels match those of the Satellite's. Turning the control up past the 2 o'clock position will result in bass that is stronger in level than the Satellite speaker's output.

If this control is turned all the way up full CW, then the bass and male vocals could become boomy and ill-defined due to the excessive amount of bass relative to the mids and highs. At this fully CW setting, the subwoofer may overload and exhibit obvious distortion and distress, even with moderate input levels. This much bass boost is available for sources that are weak in bass, but should not be used for sources that are strong in bass content.



#### POWER / CLIPPING LED (13)

This is located to the right and down from the MASTER SYSTEM LEVEL (5) knob. It is on, or GREEN, when power is applied. It turns RED when any of the power amps clip, or when the input channel is overloaded.

#### THRU OUTPUTS (8,11)

These male XLR jacks provide a means to send the input signal on to another device, or to daisy chain the TriFlex™ II into another TriFlex II unit. These can also be used to connect a TriFlex II system for mono input operation using a short XLR (or 1/4" phone jack) cable from the Thru jack to the other channel input jack. For



instance, you can run a Mono signal to the Left channel input (10), then run a short XLR cable from the Thru jack (11) to the input jack of the Right channel (7).

These outputs are buffered (isolated from the input) and set at unity gain, and are not affected by the level control. Whatever the signal level is going into the Inputs, that is the level that comes out. **YOU CAN NOT INPUT A SIGNAL INTO THE TriFlex™ II USING THESE JACKS, THEY ARE OUTPUTS ONLY!**

### **SPEAKER OUTPUTS, Left & Right (9,12)**

These are 4-pin twist-lock professional speaker outputs, with the drive signal on the pins 1+ and 1-. Minimum impedance load is 4 ohms, output is 250W peak available power, 125W continuous, into 4 ohms. Used to connect the supplied Satellite speaker systems to the System electronics inside the Subwoofer.

These outputs can not drive any other speakers when the supplied 4-ohm Satellites are used. They have been high-pass filtered at 120 Hz, using a 24 dB/octave roll-off.

## **OPERATING INSTRUCTIONS**

### **TOP REAR OF PANEL**



At the very top of the rear of the panel, the pin assignments are screened onto the metal plate to aid in connection and hook-up

### **CAUTIONS**

The unit must be disconnected from the AC power source before any work is done on it. Refer all servicing to qualified service personnel.

The heat sink on the back plate can become hot to the touch. Do not block or cover the heat sink from ventilation. There must be a minimum of 4" of space behind the heat sink. Do not allow the airflow to be become blocked by objects such as curtains or drapes, thermal building insulation, etc. It is recommended that the rear of the TriFlex II not be placed in a closed space or a space that has no fresh, cool airflow.



**DO NOT** connect the inputs of the TriFlex II to the output of a power amplifier. The inputs are meant to be driven from a line-level strength signal.

**WARNING!** The TriFlex II is very efficient and powerful! This sound system can permanently damage hearing! Use extreme care setting the overall maximum loudness!

The apparent sound level of the TriFlex II can be deceiving due to its clear, clean sound output. The lack of distortion or obvious distress can make the sound level seem much lower than it actually is. This system is capable of SPL in excess of 129 dB at 1 M from the speaker!

### **CONNECTING AC POWER TO THE TRIFLEX™ II**

The TriFlex II comes with an 6-foot IEC connection AC power cord. If you are using an extension cord or power strip with this powered speaker, make sure it is of good quality and of a sufficient current capacity to maintain safety and maximize the power output capability of the TriFlex II.

For maximum undistorted output, do not connect any other device to the same extension cord that the TriFlex II is connected to. Do not exceed the rated current capacity of the extension cord with the sum total of all units connected to it.

When first plugging in the AC cord, make sure the power switch is in the Off position, and then turn it On only once the power cord has been connected. Built-in muting will engage when the proper sequence of steps is taken.

### **USE OF THE TRIFLEX II SATELLITE WITH A SPEAKER STAND**

The TriFlex II Satellite has a stand mount cup built-in so that the system can be stand mounted on a standard 1 3/8" (36mm) diameter stand pole.

## WHEN USING STANDS OR POLES, BE SURE TO FOLLOW THESE PRECAUTIONS:

- A. Check the stand or pole specs to make sure that it can support the weight of the TriFlex™ II Satellite (24 lbs./10.9kg), and observe all safety precautions stated by the stand manufacturer, including the maximum height the stand is rated for.
- B. Always place the stand on a flat, level and stable surface, and be sure to fully extend the stand legs as per the stand manufacturer's instructions.
- C. Try to make sure that the stand legs are oriented for the least danger of tripping to those in the vicinity of the stand. Never block a doorway or hallway with the legs of a stand.
- D. Try to route cables so that people will not trip over them, or tip the speaker over. Use of duct tape, cable channels or guards, or other appropriate tie-down/cover-up devices should be carefully considered and implemented.
- E. When installing or de-installing the speaker on the stand, it is a good practice to have a helper if possible, it can be hard to "thread the needle" and mate the stand cup to the stand pole while holding the TriFlex II Satellite speaker system at arm's length. It is also helpful if someone holds the speaker stand and pole down while the TriFlex II Satellite is removed from the stand pole, this prevents the TriFlex II Satellite from pulling the pole up with it.
- F. When using stands outdoors, never attach banners or flags to the stands or the TriFlex II Satellite speaker system, strong winds may cause the speaker to blow over. If there is a possibility of windy conditions, then it may be prudent to consider weighting or locking down the stand legs to prevent the TriFlex II Satellite speaker system from being blown over.

## CONNECTING A SIGNAL TO THE TRIFLEX™ II

There are a variety of ways to input a signal to the TriFlex II.

The two inputs (7,10) provides a balanced line-level input, allowing the use of a 1/4" TRS (ring-tip-sleeve) type phone plug OR a male XLR plug.

Unbalanced inputs are also provided, as the 1/4" input (7,10) can take a standard single-ended (tip-sleeve) phone plug or the RCA phono jacks (14) can be used. The RCA jacks are providing a Left and Right stereo input, as the TriFlex II is a 2 channel sound system.

Do not connect cables to the jacks while the unit is ON and the Master System Level knob is turned up! While a standard single-ended 1/4" phone plug-equipped cable will work well and the balanced input circuitry of the inputs (7,10) will provide some interference rejection, a balanced cable using either the balanced TRS 1/4" phone plug or the XLR plug will provide superior interference rejection and performance.

Sometimes, with difficult interference problems, it will be helpful to lift the shield ground on a balanced cable at the TriFlex II end only by using the ground lift switch (4). Check any input changes carefully, always turning the Master System Level (5) control down before plugging and unplugging cables, or engaging the ground lift switch.

Use of high quality, premium cables is recommended for the TriFlex II, as these usually have better shielding and materials and will provide greater long-term reliability. The best option is a shielded balanced XLR cable no longer than necessary to reach the TriFlex II. It is usually a good idea to leave some slack at the input to the TriFlex II, and also to tape the cables down or run them under a cable guard to avoid anyone tripping over them or pulling the cable out of the TriFlex II system input.

## MASTER SYSTEM LEVEL CONTROL ADJUSTMENT

The TriFlex II is equipped with a Master System Level (5) control on the input to facilitate use in many different applications. With the Master System Level control adjusted fully clockwise, gain is at maximum and the input sensitivity is 0.200V RMS for full-rated output. When driving the TriFlex II from a mixer, it may be advantageous to reduce the input sensitivity by turning the Gain control to the halfway point. The TriFlex II will now more closely match a typical power amp.

If the mixing board indicates clipping of its output signals, then all of the TriFlex II power capability is not being utilized cleanly. Clipping the signal before it gets to the TriFlex II is not optimal. Reduce the mixer output level and turn up the Level control on the TriFlex II.



The amplifiers in the TriFlex™ II are equipped with DDT™ and an LED indicator to show that DDT has engaged (13).

If the sound seems heavily compressed, check this indicator; if it is blinking RED more than occasionally, then the drive level from the mixer (or the Level control/s {5,6} on the TriFlex II) needs to be reduced.

When first turning on the sound system, switch on all upstream electronics first, then the TriFlex II with its Master System Level control fully counterclockwise (all the way down). Begin checking levels with the mixer output level controls all the way down, and bring them up slowly with the TriFlex II Master System Level control set to the desired setting (one-half way up recommended to start).

It is not good practice to turn the Master System Level control on the TriFlex II all the way up and then try to control level only from the mixer, this approach would tend to pick up excess noise. Best practice would be to run a “hot” signal from the mixer down the cable to the TriFlex II, and then turn the TriFlex II Master System Level control up only as much as necessary to reach full desired output. With this approach, it is necessary to verify the mixer output is not clipping.

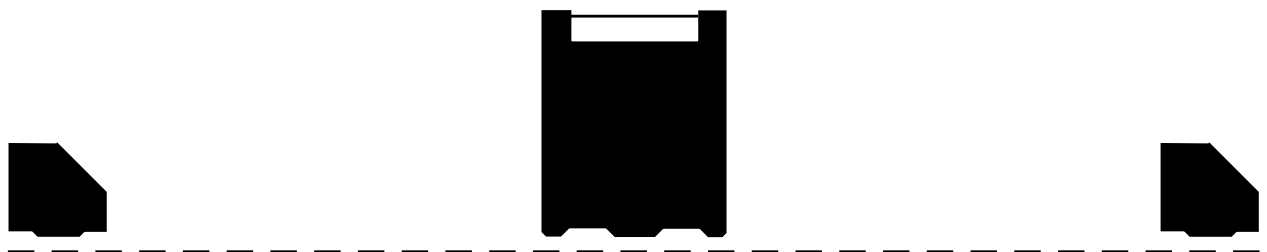
### DISCONNECTING AC POWER TO THE TRIFLEX™ II

We recommend that the Power switch (3) be used to turn the unit off first, and then the AC power cord can be removed, this minimizes stress to the power amplifiers and the transducers from turn-off transients. The power switch has an arc suppression capacitor to help during turn-off, and tends to make a clean disconnect from the AC power, while the power cord IEC connector can make intermittent contact before finally becoming fully disconnected, e.g., as when wiggling the cord.

### PLACEMENT OF THE TRIFLEX™ II SPEAKER COMPONENTS

The TriFlex II satellite speakers should be placed about 12 to 18 feet apart, and facing the audience, and ideally, the TriFlex II Sub should be placed in the same plane as the Satellites, and equidistant from them. If looking down from above, this would create a straight line, with the Sub in the middle, and either satellite about 10 feet away on either side.

### SPEAKER PLACEMENT RELATIONSHIP - TOP DOWN VIEW



This helps to insure that the Sub works with the Satellites throughout the region where they are both operating, and that they sum together well, instead of canceling each other's output.

The satellite speakers should be placed on speaker stands, and be at a height so that the horn is above the audience's heads. The Sub should be placed on a firm and level surface. If the surface or floor is uneven, wedge a piece of cardboard under one foot to prevent it from wobbling or moving, this will help assure that the bass is tight and punchy.

### USE OF THE SATELLITES AS MONITORS

The satellite speakers can be used for two channels of monitor, the angled side on the right rear allows them to be placed at a 45° angle down on their long side.

For best results, the Sub Level (6) can be turned all the way down, and the satellites used as monitors will reproduce down to approx. 110 Hz or so. If some bass content is desired in the monitors, turn the Sub Level up to a very low position, such as 10 o'clock, this will prevent the sound from becoming boomy and causing feedback.

## MONOPHONIC OPERATION

If mono operation is desired, so that the two channels, and thus, both satellites, play the same signal, see the Monophonic Hook-up Diagram near the end of the manual.

## TROUBLESHOOTING

### NO OUTPUT AT ALL

First, make sure the unit has AC power and is turned ON. Make sure the LED (13) on the power amp module is illuminated, it should be illuminated green.

If not, make certain the ON/OFF switch (3) is in the ON position and check the IEC power cord connection (2) by ensuring it is fully engaged and seated. Make certain the AC line cord is plugged into a working AC outlet.

Finally, check the fuse (1). (See the Rear Panel: Fuse section, for safety instructions.)

Once assured your unit is getting AC power, check that the TriFlex™ II is getting a signal. Temporarily disconnect the cable running to its inputs and connect it to some other device capable of reproducing the signal (i.e., a power amp and speaker). If this produces a signal, make sure that all Level controls being used have been turned up to a satisfactory level (one-third to halfway).

If the TriFlex II has been subjected to direct sunlight or excessive heat, the built-in thermal protection may have been triggered. If so, turn off the TriFlex II and let it cool for a sufficient amount of time.

If there is still no output, contact your authorized Peavey dealer or the Peavey International Service Center.

### HUM OR BUZZ

If the TriFlex II System is producing a hum or buzz, this can be AC outlet related. Try plugging the TriFlex II into a different AC outlet. Sometimes, if a different circuit (breaker) is used for the mixer and for the TriFlex II, it can cause hum problems. Unless it is not practical, it is best to use the same wall outlet (breaker) to supply power to both the mixer and the powered speaker.

Ensure that shielded cables have been used to route the signal to the TriFlex II's inputs. If speaker cables with 1/4" plugs are used as input cables instead of shielded cables, they will be prone to hum or buzz.

Hum may be ground loop related. It may be helpful to lift the shield ground on a balanced cable at the TriFlex II end only by using the ground lift switch (4). Check any input changes carefully by first turning down the Master System Level control (5), before plugging and unplugging cables, or lifting the shield ground at the speaker end by using the Ground Lift switch (4).

Check to make sure light dimmers are not on the same circuit as the TriFlex II System, the mixer or any source devices. If light dimmers are used, then it may be necessary to turn them full ON or full OFF to eliminate or reduce hum. This is a typical AC wiring/light dimmer interference problem, not a design flaw of the TriFlex II System.

The third wire (ground plug) on the AC plug should NEVER be removed or broken off, as this is a potential safety hazard.

### DISTORTED OR FUZZY SOUND

First, ensure the mixer (signal source) is not clipping or being overdriven. Make sure the Master System Level control (5) on the TriFlex II has not been set too low. Check that the input plugs are fully seated in the input jacks (7) and (10) or the RCA jacks (14) on the rear panel of the TriFlex II. Ensure that a power amp has not been plugged into one of the input jacks of the TriFlex II. If an extension cord is being used to provide the AC power to the unit, insure that it is of sufficient current capacity and that it is not also being used to supply power to any other device.

The TriFlex II has built-in EQ to extend and smooth the natural response of the Subwoofer speaker in the system. Bass boost has been applied and the system then has a nominally flat response, so it should require little, if any, additional EQ. The Satellite speaker has CD horn EQ designed into the passive crossover. If

excessive additional bass boost or HF boost have been added externally to the TriFlex™ II, it could cause premature overload at high SPL. Reduce the amount of any external (mixer, rack) EQ and see if that clears up the distortion.

Finally, realize that even though the TriFlex II is a powerful and high output unit, it does ultimately have limits, and it may need additional powered units to provide enough sound output or coverage. In this case, try turning the mixer levels down a little to see if that clears things up.

If, after checking all the things listed to check and anything else you can think of to check safely, and the system still exhibits problems, carefully note all conditions and check with your Peavey dealer for advice.

## **BOOMY OR POORLY-DEFINED BASS**

The TriFlex II system has had the bass output optimized for the capabilities of the subwoofer cabinet and the woofer inside it. Bass boost has already been applied to the signal in order to equalize it to a nominally flat response. If additional bass boost is applied via an external equalizer, or via a mixer's channel EQ controls, or the Sub Level control (6) has been turned all the way up, the bass could become boomy or distorted, and muddy the vocals or midrange signal information. If this occurs, reduce or remove the external bass boost, or turn the Sub Level control (6) down. When the Sub Level control (6) is turned to the 2 o'clock position, it is matched in level to the mids and highs of the Satellite speakers.

## **CARE AND MAINTENANCE**

Your TriFlex II is a sturdy and durable product and will provide years of reliable use if properly cared for. Use common sense and read the safety warnings to avoid hazardous operating conditions.

The unit must be disconnected from the AC power source before any work is done on it. Refer all servicing to qualified service personnel.

## **SUNLIGHT/HEAT**

Avoid prolonged exposure to direct sunlight, as this may cause the unit to overheat and thermally shut off.

Excessively hot operating conditions can also cause a thermal shutdown.

Do not store in extremely hot or cold conditions or extremely high humidity. Always allow unit to come to room temperature before use.

## **CLEANING**

Never clean the TriFlex II while plugged in or turned ON! When the unit has been fully disconnected from AC power sources, use a dry cloth to remove soil or other dirt. Never use strong solvents on the TriFlex II, as they could damage the cabinet. Do not allow ANY fluids to drip inside the TriFlex II.

## **TOUCHUP**

Black touch-up spray paint, such as Peavey's part number 00052110, can be used to touch-up scrapes or dents on the cabinet or grille, use a light touch and multiple passes, instead of trying to cover things up all at once. Be careful not to spray the screened labels on the power amp module or the speakers with the paint. Follow all instructions on the can, and heed all warnings!

## **CHECK FOR SECURE HARDWARE**

After the first few months of use and periodically thereafter, check the hardware of the TriFlex II System for tightness, including the rear panel screws and the screws that hold the casters to the Subwoofer cabinet.

The unit is subject to a great deal of vibration, and this could cause them to loosen with use

# Triflex™ II

## SPECIFICATIONS

### TRIFLEX™ II SYSTEM SPECIFICATIONS

#### SUBWOOFER

Transducer complement: 1 x 15" woofer, custom heavy-duty

Nominal Impedance: 8 ohms

Power Handling, Transducer: 350W Continuous, 700W Program

Box tuning frequency (Fbox): 48 Hz

Frequency Response, 1 meter on-axis, swept-sine in anechoic environment (thru system electronics): 40 Hz to 105 Hz

Usable low frequency limit (-10 dB point): 34 Hz

Sound Pressure Level, 1 Watt, 1 meter in 1 / 2 space environment: 102 dB

Maximum Sound Pressure Level (1 meter, 1 / 2 space): 127 dB

Weight: 98 lbs. (44.5 kg)

Dimensions (H x W x D): 19.65" X 28.00" X 28.10" (Includes feet)

(unit down on feet)

19.65" X 32.00" X 28.10" (Includes feet and casters)

Height in Transport mode: 32.00"

#### SATELLITE SPEAKERS

Transducer complement:

Low Frequency Section: 1 x 10" woofer, custom heavy-duty

High Frequency Section: 1 x 1.4" titanium compression driver on a Quadratic Throat Waveguide™ with 75 degrees by 75 degrees coverage pattern

Nominal Impedance: 4 ohms

Power Handling, Satellite System: 200W Continuous, 400W Program, 800W Peak

Box tuning frequency (Fbox): 84 Hz

Frequency Response, 1 meter on-axis, swept-sine in anechoic environment: 88 Hz to 20 kHz

Sound Pressure Level, 1 Watt, 1 meter in 1 / 2 space environment: 101 dB

Maximum Sound Pressure Level (1 meter, 1 / 2 space): 124 dB

Weight: 24 lbs. (10.9 kg)

Dimensions (H x W x D): 19.6" X 11.83" X 11.83" (Upright, Includes feet)

#### COMPLETE SYSTEM

Active Crossover Frequency: 120 Hz, 24 dB/Octave

Maximum Sound Pressure Level (1 meter, half-space): 129 dB

Dimensions when in transport orientation, on casters (H x W x D): 43.00" X 20.37" X 23.54" (Includes all feet)

Weight (Sub and Satellites Only): 146 lbs. (66.4 kg)

Speaker Cables: Two 15 foot 16 ga. with 4-pin twist-lock connectors on each end.

#### INTERNAL AMPLIFIER SPECIFICATIONS

Subwoofer Amp Power Output: 500W peak available power 250W continuous, into 8 ohms.

Satellite Amps Power Output: 250W peak available power 125W continuous, into 4 ohms.

Inputs (Line Level): Left channel XLR or 1 / 4" phone jack combo input (female)

Right channel XLR or 1 / 4" phone jack combo input (female)

Input Impedance: 20 k Ohms balanced, 10 k Ohms unbalanced (single-ended)

Thru (Outputs, Line Level): Left channel XLR full-range output (male)

Right channel XLR full-range output (male)

Speaker Level Outputs:

Left channel 4-pin twist-lock professional connector Output

Right channel 4-pin twist-lock professional connector Output

#### CONTROLS:

Master System Level (Left & Right Gain)

Subwoofer Level Control

Ground Lift Switch

Power Switch (On rear of amp panel when the Subwoofer is in use position, with rubber feet on the floor)

Nominal amplifier frequency response: +0, -2 dB from 10 Hz to 20 kHz

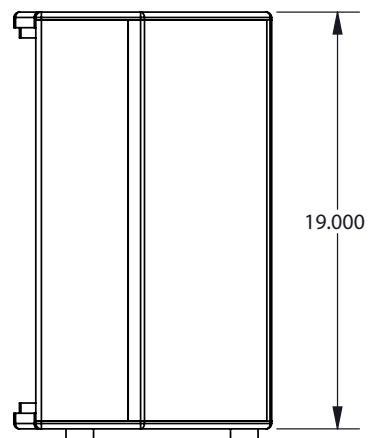
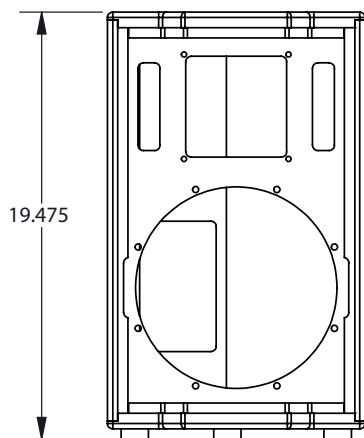
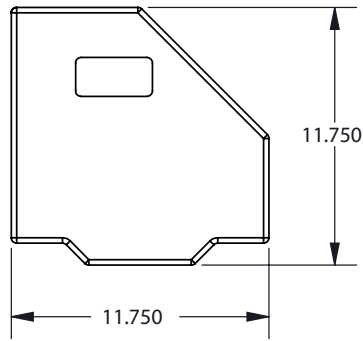
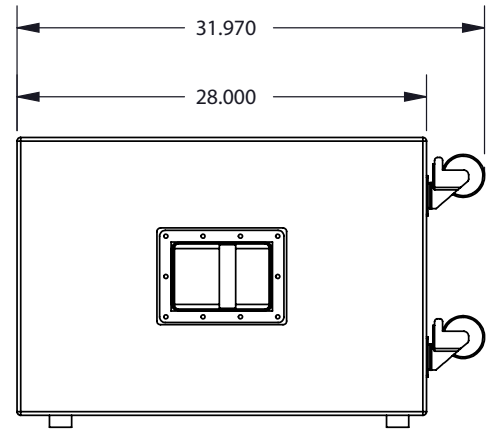
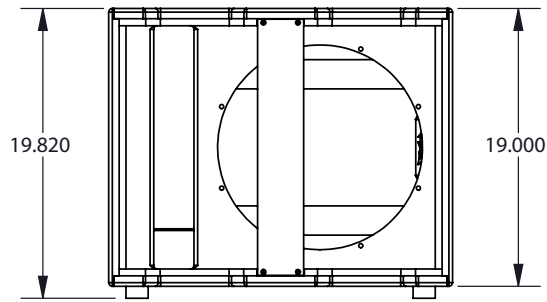
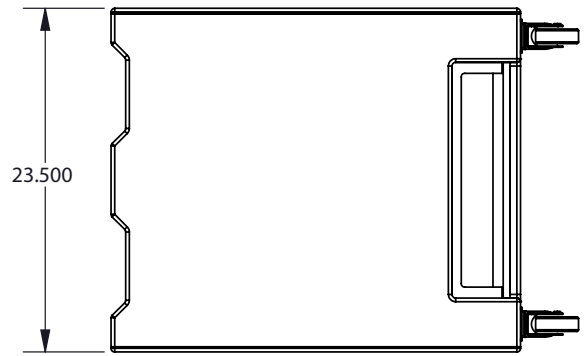
Hum and noise: Greater than 90 dB below rated power

DDT dynamic range: Greater than 18 dB

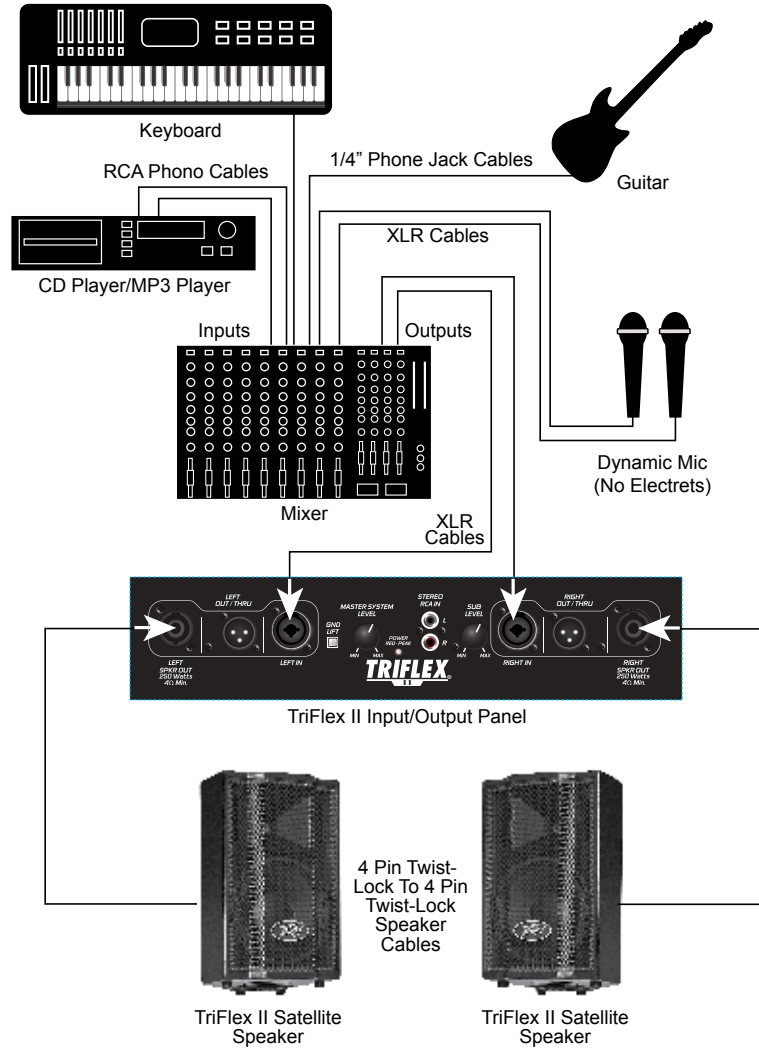
THD: Typically less than 0.05 %

Infrasonic filter protection: 36 dB/octave roll-off

Power Requirements: Domestic 120VAC, 60 Hz, 210 Watts

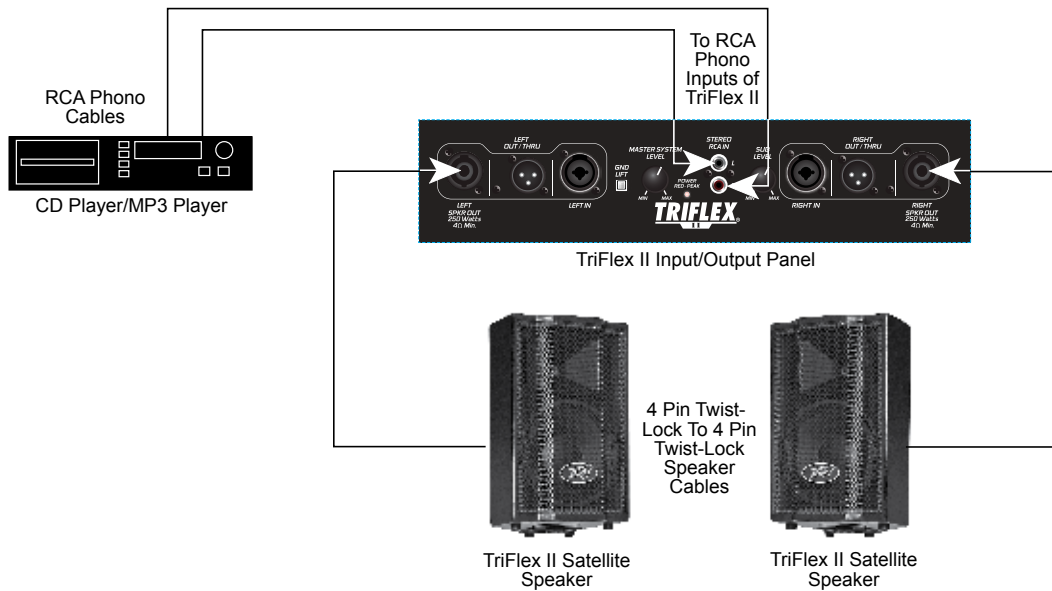


## TYPICAL STEREO HOOK-UP DIAGRAM

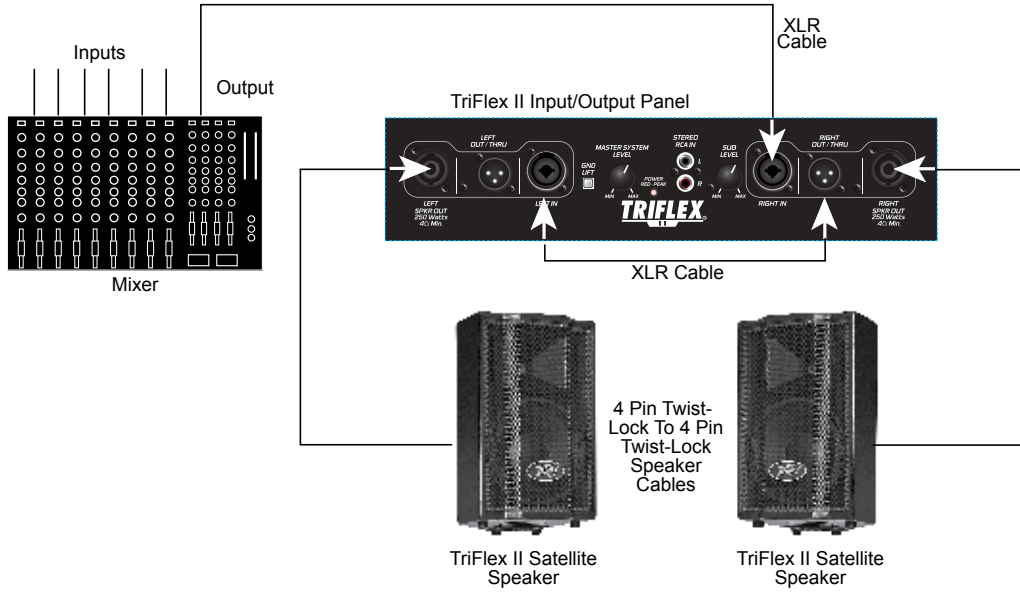


## MINIMALIST STEREO DJ HOOK-UP DIAGRAM

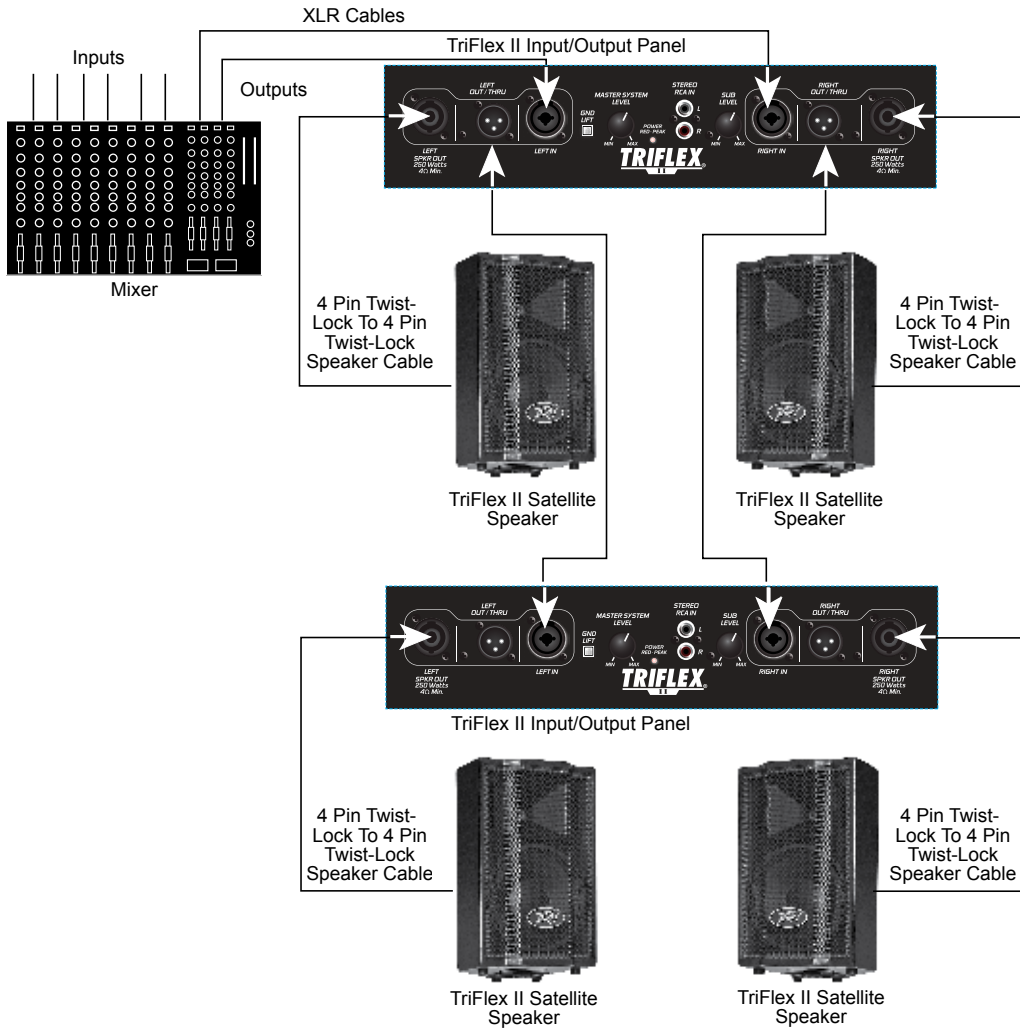
(No mic input, just music from signal source.)



## MONOPHONIC HOOK-UP



## DAISY CHAIN USE OF MULTIPLE TRIFLEX II SYSTEMS





*Features and specifications subject to change without notice.*

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