



REL

REL
ACOUSTICS LTD.



Operating Instructions for the

SerieT/i Sub-Bass Systems

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Caution Marking Explanation




The lightning flash with 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 persons.



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

Important Safety Instructions

- 1 Read all of these instructions.
 - 2 Save these instructions for future use.
 - 3 Heed all warnings.
 - 4 Follow all instructions.
 - 5 Do not use this apparatus near water.
 - 6 Clean only with automotive polish and micro fiber cloth.
 - 7 Install in accordance with the 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 grounding-type plug. A grounding type plug has two blades and a third grounding prong. The 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 where they exit from the apparatus.
 - 11 Only use attachments/accessories specified 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.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Warning / Avertissement

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Cet article est lourd. Pour éviter tout risque de blessure, prendre soin lors de la manipulation.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on apparatus.

L' appareil ne doit pas être exposé à des éclaboussures et aucun objet rempli de liquide, comme des vases, ne doit être placé sur l'appareil.

The mains plug is used as disconnect device. The mains plug of the apparatus should not be obstructed OR should be easily accessed during intended use. To be completely disconnected from the power input, the mains plug of the apparatus shall be disconnected from the mains.

An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.

Les conduites Plus est utilisé comme dispositif de déconnexion. La fiche de l'appareil ne doit pas être obstruée OU doit être facilement accessible pendant l'utilisation. Pour être complètement déconnecté de l'alimentation électrique, le cordon d'alimentation de l'appareil doit être débranché.

Un appareil avec une borne de terre doit être branché sur une prise de courant en étant relié à la terre.

Design Safety

This apparatus is supplied with a detachable mains cord. For 230V operation a 1.6A/ T/5i, 2A/ T/7i, 3.15A/ T/9i fuse is fitted in the socket, for 120V operation a 3.15A/ T/5i, 4A/ T/7i, 6.3A/ T/9i fuse is fitted. Should the fuse need to be replaced use a similar rated fuse approved to ASTA or BSI 362 standards. Do not use without the fuse cover in place. Replacement fuse covers are available from your distributor.

Attention Explication Marquage




L'éclair avec le symbole de pointe de flèche dans un triangle équilatéral est destiné à alerter l'utilisateur de la présence de non isolée tension dangereuse à l'intérieur de l'enceinte du produit qui peut être d'une ampleur suffisante pour constituer un risque d'électrocution pour les personnes.



Le point d'exclamation dans un triangle équilatéral est destiné à alerter l'utilisateur de la présence d'instructions dans la documentation accompagnant l'appareil exploitation et de maintenance (entretien).

Informations Importantes Relatives a la Securite

- 1 Lisez attentivement ces instructions.
 - 2 Conservez ces instructions.
 - 3 Respectez tous les avertissements.
 - 4 Suivez toutes les instructions.
 - 5 Ne pas utiliser cet appareil près de l'eau.
 - 6 Nettoyez seulement avec du vernis automobile et tissu microfibre.
 - 7 Installer conformément aux instructions du fabricant.
 - 8 Ne pas installer près de sources de chaleur telles que des radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) qui produisent de la chaleur.
 - 9 Ne pas contourner le dispositif de sécurité de la prise de terre. Une fiche de terre a deux lames et une troisième broche de mise à la terre. La troisième broche est fournie pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour le remplacement de la prise obsolète.
 - 10 Protégez le cordon d'alimentation ne soit piétiné ou pincé, en particulier au niveau des fiches, des prises de courant, et le point de sortie de l'appareil.
 - 11 Utilisez uniquement des fixations / accessoires spécifiés par le fabricant.
 - 12 Utilisez seulement avec un chariot, stand, trépied, support ou table spécifié par le fabricant, ou vendu avec l'appareil. Lorsque vous utilisez un chariot, soyez prudent lorsque vous déplacez l'ensemble chariot / appareil pour éviter les blessures en cas de chute.
- 
- 13 Débranchez cet appareil pendant un orage ou lorsqu'il est inutilisé storsm pour de longues périodes de temps.
 - 14 Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à rail ou à l'humidité, ne fonctionne pas normalement, ou a été échappé.

Attention: *Tout changement ou modification non expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur à utiliser cet équipement.*

Sécurité Design

Cet appareil est livré avec un cordon amovible. Pour le fonctionnement d'un fusible de 230V 1.6A/ T/5i, 2A/ T/7i, 3.15A/ T/9i est montée dans la douille, pour le fonctionnement de 120V un fusible de 3.15A/ T/5i, 4A/ T/7i, 6.3A/ T/9i est monté. Si le fusible doit être remplacé utilisation un fusible similaire approuvé pour ASTA ou BSI normes 362. Ne pas utiliser sans le couvercle de fusible en place. Les couvercles de rechange sont disponibles auprès de votre distributeur.

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: 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 can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the 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 and correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Welcome to the REL Family

Thank you, your new SerieT/i is designed to set a new standard for excellence in its category. T/i is better in every way than the previous generation Serie T, which itself set new standards for performance, reliability and beauty in design. The REL design team had to re-think how subwoofers were likely to be used in the years to come and we believe we have hit the precise balance of ease of use, upgraded sonic performance and we even managed to improve on the physical beauty and quality of finish.

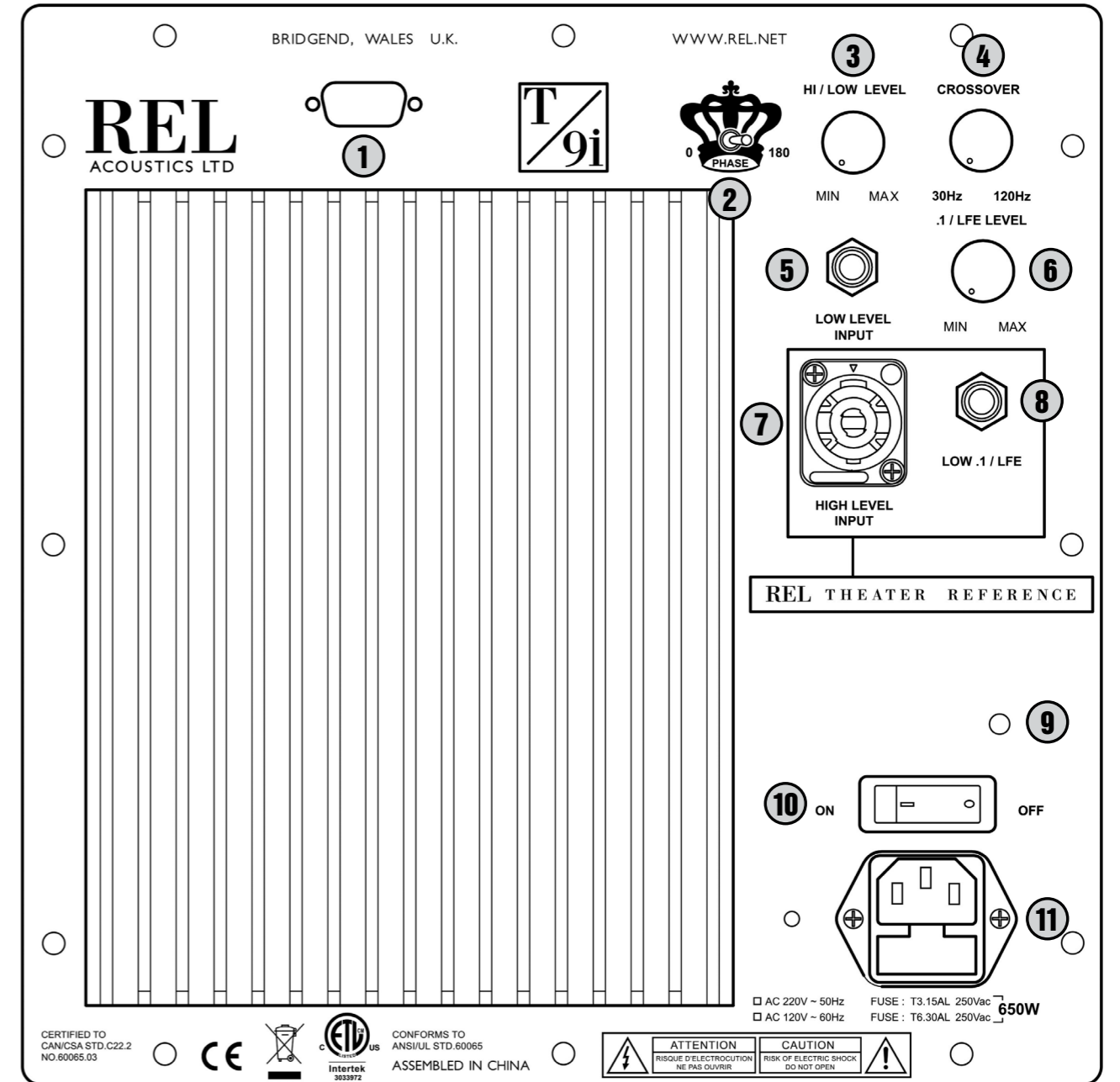
Wait till you experience the optional Arrow™ wireless system. There's nothing quite like realizing you really can have it all; great performance and no visible wires. The key to its excellence is its speed which is like nothing in the more common Bluetooth et al consumer-based systems. Latency, or delay, is the great bugaboo of wireless systems because it can rob music and film of all the warmth, punch and excitement of the real thing. Arrow operates in the region of 15-22 milliseconds, which is many times faster than more common systems and results in performance very close indeed to the performance of a hardwired connection.

Our engineers focused on bringing as much of the power, speed, slam (and delicacy) of our larger models to T/i. We make extensive use of aluminium bracing in our new cone structures to produce a lighter and much more rigid piston to drive the dynamics of music and film with greater authority. We even removed the carbon black from our cones because the added mass slowed the sound noticeably. White, it's the new black.

The one thing we didn't change was the now-classic REL Class A/B power amplifiers because no other designs at anything close to these prices deliver the combination of rugged reliability, immense reserves of current and brilliant sonics these designs deliver. At REL, we are committed to constantly--some would say relentlessly--upgrading our offerings but we always do so in a sensible manner that retains the tried-and-true while pushing forward in every other aspect of our designs. We trust you will enjoy your new T/i for many years to come.

REL Serie T/i Rear Panel Connection Legend

- 1 **Wireless Interface Socket:** Used to connect ARROW™ wireless system.
- 2 **Phase:** Used to set phase 0-180 degrees.
- 3 **Volume Control for HI/LOW Level input:** Use to adjust output when using either HI Level or LOW Level input. Do not use both simultaneously.
- 4 **Crossover:** Used to select crossover frequency. Variable between 30Hz and 120Hz.
- 5 **Low-Level Phono Input:** Used to connect low-level to the output of a preamplifier, integrated amplifier or receiver. (For home cinema, use .1/LFE input).
- 6 **Volume Control for .1/LFE Input:** Use to adjust output level when using .1/LFE input from a 5.1 amplifier or processor.
- 7 **High-Level Neutrik® Speakon® Socket:** Use to connect high-level to the main front amplifier speaker terminals.
- 8 **.1/LFE Phono Input:** Used to connect to the .1/LFE output from a 5.1 amplifier or processor.
- 9 **Power Pilot Light:** Power On/Off indicator.
- 10 **Power ON/OFF Switch:** Use to turn unit on or off.
- 11 **IEC Mains Socket:** Fused mains (AC) input socket that accepts a detachable power cord.



Connecting Up

Always switch off your system before disconnecting any wires.

To increase the versatility of connecting up, the SerieT/i models have three separate inputs. A Neutrik® Speakon® socket and two phono sockets. This is to facilitate use with both two-channel stereo systems and AV surround sound systems.

The high-level, unbalanced, dual-channel (stereo) input is via a Neutrik® Speakon® connector which is connected to the power amplifier's left and right channel speaker terminals. This has the advantage of ensuring that the REL receives exactly the same signal as the main speakers. This means that the character of the bass from the main system is carried forward into the sub-bass. This is a very important point and together with the REL's Active Bass Controller (ABC) ensures far superior system integration of the sub-bass with the main system.

The low-level input is via two separate phono jacks that connect to either the .1/LFE output of a home cinema amplifier/processor or to the output of a stereo preamplifier.

HI LEVEL and .1/LFE inputs can be used simultaneously. The benefits are two-fold when used with a home cinema system. The low level input reproduces the .1/LFE channel and the high level connection underpins the main front speakers. The main front speakers should be set to the 'large' option on the processor. See "Theater Applications" for more information.

Connecting to the Power Amplifier Using the Speakon® High Level Input

To engage the Neutrik® Speakon® plug, insert fully into socket and rotate clockwise until locked.

To remove the Neutrik® Speakon® plug, grip body of plug, place thumb on chrome lever, move lever backwards, rotate plug anticlockwise quarter turn and withdraw.

The high-level input is designed to accept the stereo (two-channel) signals from the speaker terminals of your receiver, integrated amplifier or basic amplifier. This has the advantage of ensuring that your subwoofer receives exactly the same signal as the main speakers, which means that the character of the bass from the main system is carried forward into the Sub-Bass System.

This is a very important point and together with REL's Natural RollOff™ circuitry, ensures far superior system integration of the Sub-Bass System with the main system.

High-Level Input: Connections should be made to the same binding post on main amplifier as the main

speakers. Red to amplifier main right speaker red terminal, yellow to amplifier main left speaker red terminal and black to amplifier main speaker black terminal, right or left but not both. Plug the Neutrik® Speakon® plug into the HI LEVEL Speakon® socket.

.1 Input: This requires a phono-to-phono cable and is a dedicated true .1 channel. This circuit therefore eliminates the normal Natural RollOff™ Crossover and passes the .1 low-level signal through with only the required 120Hz fourth-order filter.

Low-Level Input: The phono input allows for conventional connection from a preamplifier and should be used in the rare event that a high-level connection proves incompatible. Plug one end of the phono-phono cable into the LOW LEVEL INPUT jack of the REL and the other end into the left or right channel output of your preamplifier.

PHASE SWITCH – Used to set phase

Position 0 / High-Level, Low-Level or LFE: 0 degrees phase

Position 180 / High-Level, Low-Level or LFE: 180 degrees phase

PHASE SELECTION AFFECTS BOTH HIGH- AND LOW-LEVEL INPUTS

Crossover is always engaged for Hi level input. The .1/LFE signal does not pass through the crossover circuit.

REL Set-Up Made Simple

REL products are not traditional subwoofers, but true Sub-Bass Systems. A REL is designed to augment the performance of “full range” speaker systems in order to provide, in certain cases, linear response below 15 Hz. Therefore, for the moment, please set aside everything you’ve been taught about subwoofers and how they are integrated into a stereo or home cinema system. REL Sub-Bass Systems set-up and positioning differs from conventional subwoofers. A REL will take advantage of physics and room acoustics to provide deep pressurization as no traditional subwoofer can. It is important that you bring to the set-up process a willingness to do things a little differently in order to obtain these superior results. The end result of your labours will be an utterly seamless integration of true deep bass to a sound system, regardless of the main speakers’ low bass capability.

Basic set-up should take no more than ten to fifteen minutes to accomplish once connected.

Two Things Before You Begin

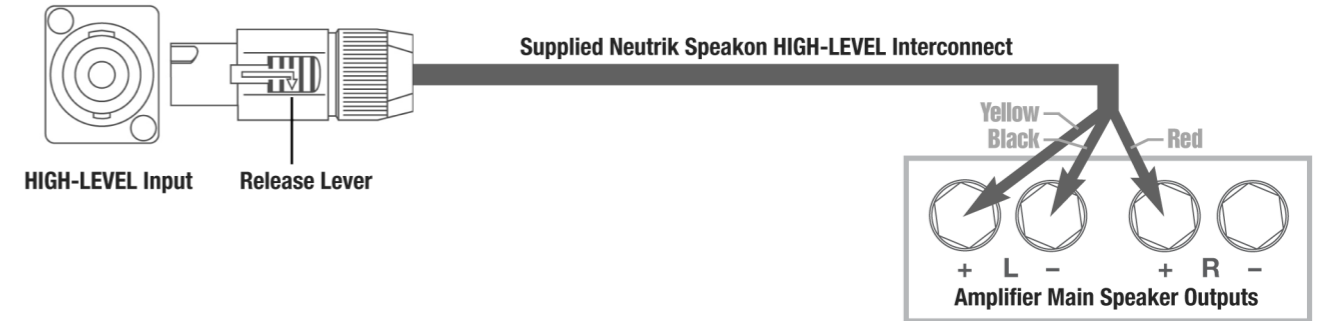
- 1 It is helpful to know that you will almost always connect the REL to the input on the rear panel labeled “HIGH LEVEL INPUT.” This connection is made using the supplied 32’ 10” (10 meters) cable, the bare leads of which connect to the speaker output terminals of the power amplifier. The easy and foolproof connection at the REL is done with a Neutrik® Speakon® connector. The purpose of connecting to the speaker output terminals is one of the unique secrets of REL’s success. By connecting to the High Level input on the REL from the amplifier, you build forward the sonic signature of your main system, including the tonal balance and timing cues of the entire electronics chain. In this way, the REL is fed the exact signal that is fed to the main speakers.
- 2 When possible, the REL should be placed in one of the corners behind the speakers. Remember, we are dealing with true LOW bass pressurization with RELs. Low bass pressurization below 40Hz is best derived from corner placement, where the most linear and efficient low bass can be produced because the subwoofer is able to take advantage of the tangential (corner-to-corner) axis which is typically the longest axis in a room.

Connecting and Setting Up

High-level connection, using the enclosed cable with the Neutrik® Speakon® connector, is always the first choice. This connection can be made without affecting the performance of the amplifier because the REL’s amplifier input impedance is 150,000 ohms, in effect producing NO additional load on the rest of your system.

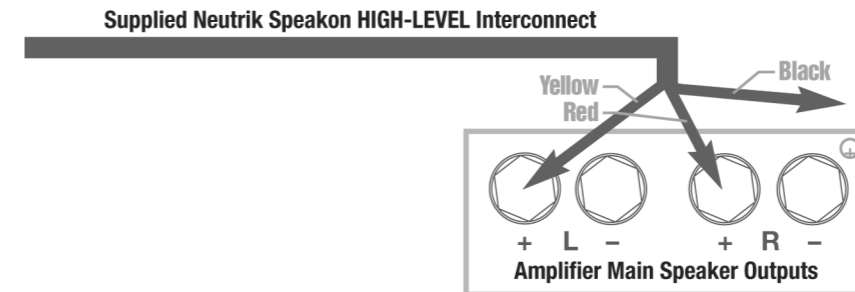
- The standard high-level hook up procedure is: attach the red wire to the amplifier’s right positive speaker output terminal; attach the yellow wire to the amplifier’s left positive speaker output terminal; attach the black wire to whichever of the amplifier’s ground output terminals is convenient; plug the Speakon® connector into the Sub-Bass System’s high-level input.

Standard High-level



- For differential (i.e. fully balanced) amplifiers using one REL, simply use the standard connecting scheme with the exception of NOT connecting the black wire to a negative speaker terminal. Instead, it should first be allowed to “float” or hang down without connection to ANY terminal. Should hum occur using this method, please try connecting to an unused RCA connector on the rear of a preamp or amplifier. Please contact your dealer should there be any questions concerning this or any other hookup procedure.

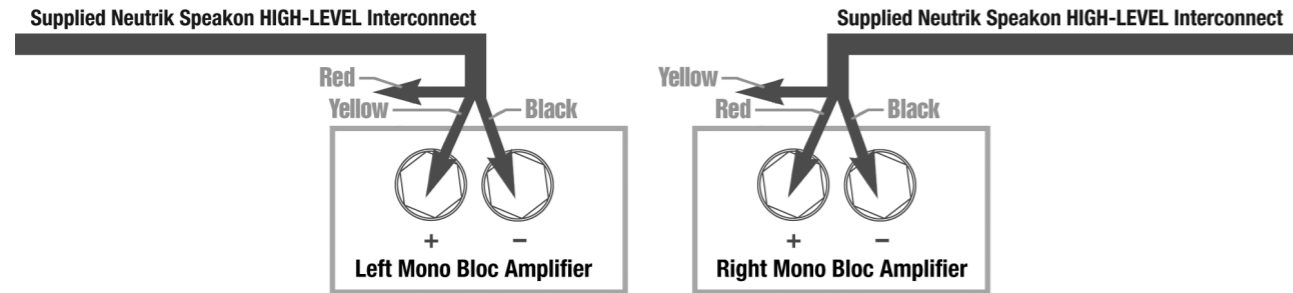
Differential (i.e. Fully Balanced)



NOTE: The SerieT/i models are equipped with internal circuitry to allow seamless connection to Class-D (digital) amplifiers. If connecting to a Class-D amplifier, follow the above connection procedure for differential amplifiers.

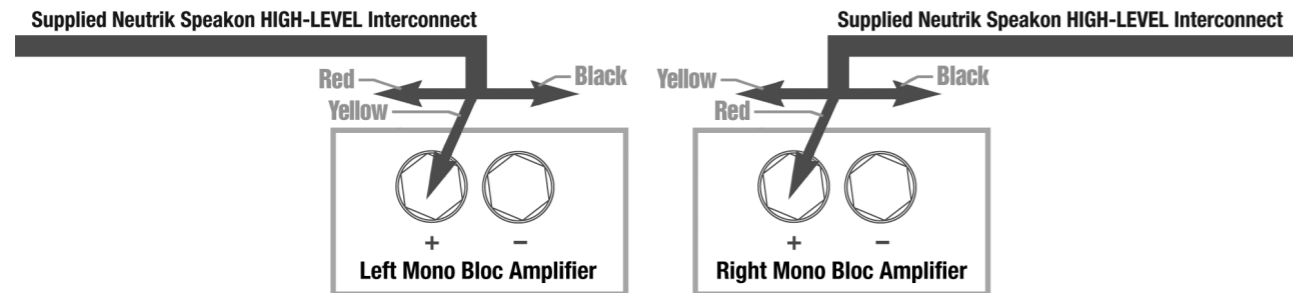
- If connecting RELs to Mono Bloc amplifiers we strongly advocate using (2) RELs, one for each amplifier. Connect the black wire of each REL to the negative speaker terminal of the corresponding amplifier channel; twist together the red and yellow wires of each REL separately and connect each pair to the positive speaker terminal of the corresponding amplifier channel. In some instances, this will result in

Mono Bloc



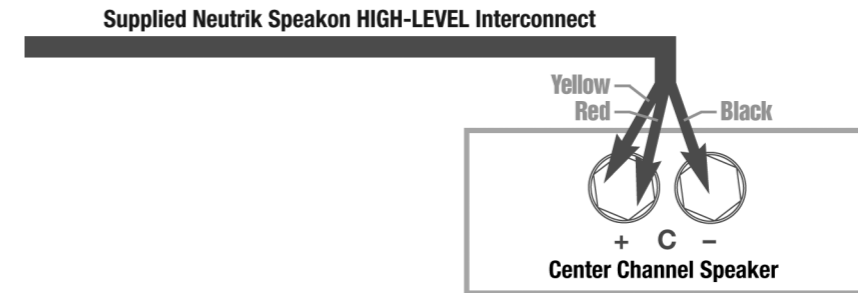
exceptionally high gain (output) from the RELs. If it seems simply too high in gain, please remove either the red or yellow wire from the twisted pair. This will reduce output by half and restore a natural dynamic. If the amplifier is of balanced differential design, please follow the instructions in the section above labeled Differential Connection.

Mono Bloc Differential



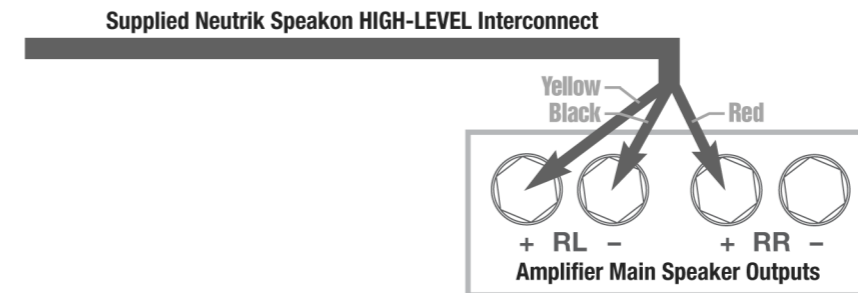
- If connecting a single REL as a dedicated center channel sub, please consider connecting to the rear of the speaker, rather than routing the REL High Level cable all the way back to the amplifier. Connect the black wire of the REL to the negative center channel speaker terminal; twist together the red and yellow wires and connect this pair to the positive center channel speaker terminal.

Dedicated Center Channel



- If connecting a REL as a dedicated rear channel sub, connect the black wire of the REL to either the left rear or right rear negative speaker terminal; connect the yellow wire to the left rear positive speaker terminal; connect the red wire to the right rear positive speaker terminal. If the amplifier is of balanced differential design, please follow the instructions in the section above labeled Differential Connection.

Dedicated Rear Channel



Low-level connection (via phono connectors) is always an option if high-level connection is not possible. When connecting to the low-level inputs in a system in which high-level connection is not possible, such as if using internally-amplified speakers, connect left and right phono cables between the LOW LEVEL INPUT jacks of the REL and the left and right channel outputs of your preamplifier.

When connecting to a home cinema system where there is a .1/LFE channel output, connect a single phono cable between the sub output of the processor/receiver and the .1/LFE input jack on the REL.

1 Positioning: The optimal position for a REL is in one of the corners behind the main speakers. This position provides 9 dB of mechanical amplification and allows for the most linear true low bass wave launch, owing to the ability to tune the REL to the longest distance in the room in order to produce the longest, therefore lowest, bass waves.

2 The Process: To begin the set-up process, choose a piece of music that has a repetitive bass line that is very low in frequency. We suggest track 4 from the soundtrack to Sneakers (Columbia CK 53146). This has a repetitive bass drum throughout that gives you plenty of time to move the woofer around, but more importantly, the venue was quite large for this recording, and therefore it has a very deep and large-scale bass signature. This type of track is perfect for the set-up process and should be played at the highest reasonable level expected for system playback.

Working with a partner, one in the listening position and one at the REL manipulating the controls, is the most effective and efficient way to set up the REL. If working alone, the initial steps in the set-up can be very effectively carried out from the location of the REL. Trying to ignore all other music in the track, listen for the bass drum and its effect on the listening room.

3 Phase Orientation: Once in the corner we need to adjust for phase. This may be the single most critical step, and because it really is quite simple, it is often over-thought. Keep in mind; the right phase is whichever position is the loudest or fullest. While playing music with true low bass, adjust the crossover to a point where the REL and the speaker are sure to share frequencies (about halfway up, or at 12 o'clock on the crossover control, or slightly higher for smaller speakers). At this point turn the HI/LOW LEVEL control up so that both the REL and speaker are roughly equal in volume and then switch, using the phase switch, from "0" to "180" phase positions. Again, whichever position is loudest or fullest is the correct position. That is, when the position is working in harmony with your main speakers, reinforcing bass, not cancelling it.

4 Placement: The next step is to determine precisely how far from the corner the sub should be placed to achieve the most efficient output, as well as the lowest frequency extension. With the REL fully into the corner, and pointing straight out along the diagonal coming out of the corner, continuing to play the music, slowly pull the REL from the corner on the diagonal, equidistant from both side and rear wall. At a certain point (sometimes a matter of only a few inches, in rare cases a foot or more) the REL will audibly go lower, play louder, and, if it truly locks on to the room and is fully pressurizing it, the air around the REL will seem to be energized, stop right there! This is the correct position from the corner for the REL.

5 Orientation: Once the position from the corner has been established, the orientation of the woofer must be determined by rotating the REL from an imagined centre point at the rear of the REL. As the REL is moved from one side to the other listen for the greatest level of output and bass linearity. In effect, the REL should be left in the position where it is playing the loudest and lowest.

6 Crossover and Level Settings: To determine the crossover point, take the volume of the REL (using the HI/LO Level control) all the way down, and put the crossover to 30 Hz. At this point, bring the REL's volume back up slowly to the point where you have achieved a subtle balance, i.e. the point at which you can hear the REL even with the main speakers playing. Now, bring the crossover point up until it is obviously too high; at this point bring it down to the appropriate lower setting. For all intents and purposes, this is the correct crossover point. Once this stage has been reached, subtle changes to volume and crossover can be accomplished to provide the last bit of complete and seamless integration. With that, set-up is complete.

Hint: There may be a tendency to set the crossover point too high and the volume of the Sub-Bass System too low when first learning how to integrate a REL with the system, the fear being one of overwhelming the main speakers with bass. But in doing so, the resulting set-up will be lacking in bass depth and dynamics. The proper crossover point and volume setting will increase overall dynamics, allow for extended bass frequencies, and improve soundstage properties. Note, volume must be adjusted in conjunction with crossover changes. In general, when selecting a lower crossover point, more volume may need to be applied.

Theatre Applications

For Dolby Digital AC3 or other 5.1 theatre systems, once the standard set-up for two-channel outlined above is complete, the LFE output from the processor or receiver should be connected to the .1/LFE INPUT and appropriate volume adjustments made using the .1/LFE level control. For this configuration, you must set the processor to the “large” or “full range” setting for the left and right speakers in order for the REL to receive the bass signal via the high-level cable. In this configuration, the REL provides support for both the left and right speakers for two-channel listening, and support for the LFE when movies are playing. Most processors will allow you to defeat the subwoofer output when listening in the two-channel mode. The effect of this set-up is one of greatly increased dynamics in the mid-bass range, no bass bloat, and a greater degree of space and timing from the special audio effects. For an even greater sense of space and impact, a second REL connected in parallel to the centre channel will prove to be a dramatic improvement as well. And if that is not enough fun, a rear REL, both to support the rear channel speakers as well as to evenly distribute LFE through the room, truly completes the full-range sonic picture for state-of-the-art film reproduction.

Running In

Care taken during run in will be rewarded by many years of pleasurable use. Both the electronics and the drive unit will benefit from an initial period of carefully controlled use. Possible damage may be sustained by running in the unit at too high a volume setting over an extended period. On the other hand, by taking a little care over this initial period, about 24 hours of actual use, a longer life with a higher potential eventual performance is assured.

Care and Polishing

The cabinets are best maintained by using an automobile polish made by reputable manufacturers. Our favorites are those made by Meguiars and Mother's. If objects are to be placed upon the top, it is advisable to use a small mat to protect the surface and to avoid the risk of rattles.

Technical

The SerieT/i models use an unusual method of bass loading. They are designed to operate below normal system resonance. This has been achieved without the normal form of bass boost or electronic equalization. Instead of a constantly increasing bass equalization response, we simply ensure there is sufficient amplifier gain to drive the speaker unit to its maximum excursion level at whatever the designated lowest operating frequency is, and then cut the bass at a controlled rate of 12dB per octave above this frequency. Although this may at first seem identical to boosting the bass, it is actually quite different and ensures that the timing of transients is far improved compared to the usual bass equalization used. Bass will sound cleaner and faster.

The amplifier is fully DC coupled to avoid phase shifts and compromises in its low end performance. It is inherently stable and will retain its characteristics over very long periods of time – important in a unit designed for an exceptionally long working life. These amplifiers are designed to withstand reasonable abuse and overloads. If in doubt, please contact your dealer.

We believe that the importance of the electronics, cabinet and drivers being designed to work in harmony is paramount. This approach allows the SerieT/i Sub-Bass Systems to achieve the highest possible level of fidelity.

Overload Protection

All REL Sub-Bass Systems are designed as true sub bass speakers. They are designed to reproduce those exceptionally deep notes that are felt as well as heard. This it will attempt to do at whatever volume level you set. If set too high no damage should result because the built-in electronics will limit the cone movement. This electronic control is called Set-Safe™. It constantly and instantaneously monitors the output from the power amplifier and is totally transparent in operation until required. This means it has absolutely no effect on the sound quality of your REL until an overload is detected.

Ordinarily an overload would cause the power amplifier to go into clipping with resultant loss of control over the drive unit. This can cause drive unit damage, and always sounds nasty. Set-Safe™ detects the point of incipient clipping and gently soft-clips the waveform of the signal to ensure actual clipping does not occur.

This is a necessarily simplified description of what actually happens, but in effect, Set-Safe™ controls the amplifier and ensures there is minimum risk of amplifier and driver damage caused by over-driving.

A thermal overload device is fitted to all SerieT/i Sub-Bass Systems. If the unit is deliberately overdriven this device will sense the temperature rise and cut the output; recovery time is approximately five minutes. If this happens, it is a warning that the unit is being overdriven and the volume level control should be reduced to a safe level.

Although everything possible has been done to minimize risk of thermal overload failure, there can be no defense against those individuals who deliberately abuse the device. Such damage is NOT covered by warranty. Please remember your REL is there to supplement your main system, not overwhelm it!

Power Saving Efficiency

All REL sub bass system designs utilize a true On-Off switch that affords the owner the ability to turn off their unit completely, without having to unplug the A/C mains cord. When a REL sub bass system is switched off using the On-Off switch on the rear panel it draws ZERO power.

It is not necessary to switch your SerieT/i off between listening sessions- it will not significantly shorten its life by leaving it switched on. On the other hand, it will not harm sound quality if it is always switched off. It is perfectly safe to leave your SerieT/i on under all normal domestic circumstances as it is fully protected by internal fuses and an external mains fuse in the mains input socket. There is a spare fuse inside the input socket.

T/9i Specifications

Type:	Passive Radiator, front-firing active woofer, down-firing passive radiator
Active Drive Unit:	10in., 254 mm long-throw, inverted dust cap, steel chassis
Passive Radiator:	10in., 254 mm
Lower Frequency Response:	28 Hz at -6 dB in room
Input Connectors:	Hi Level Neutrik Speakon, Lo Level single phono, LFE phono
Input Impedance:	High Level: 150kΩ, Low Level: 10kΩ, .1/LFE: 10kΩ
Gain Control Range:	80 dB
Power Output:	300 Watts (RMS)
Phase Switch:	Yes, 0 or 180 degrees
Amplifier Type:	Class AB
Wireless Capability:	Yes - REL Arrow™ wireless system [required], Sold separately
Protection System	
Fully Electronic SET-SAFE:	Yes
D.C. Fault:	Yes
Output Short:	Yes
Mains Input Voltage:	220-240 volts, 110-120 volts for certain markets
Fuses:	3.15 Amp semi delay 230 volts operation 6.3 Amp semi delay 115 volts operation
Dimensions (WHD):	Including Feet and Rear Panel Controls 13 x 15.2 x 16 in., (330 x 387 x 407 mm) Add 1.75 in (44.5 mm) in depth when using Hi Level connector
Net Weight:	41.3 lbs. (18.7 kg)
Finish:	Gloss Piano Black or White Lacquer
Supplied Accessories	
Mains Lead:	Yes
Neutrik Speakon Interconnect:	Yes (10 Meters Nominal)
Users Manual:	Yes

T/7i Specifications

Type:	Passive Radiator, front-firing active woofer, down-firing passive radiator
Active Drive Unit:	8in., 200 mm long-throw, inverted dust cap, steel chassis
Passive Radiator:	10in., 254 mm
Lower Frequency Response:	30 Hz at -6 dB in room
Input Connectors:	Hi Level Neutrik Speakon, Lo Level single phono, LFE phono
Input Impedance:	High Level: 150k Ω , Low Level: 10k Ω , .1/LFE: 10k Ω
Gain Control Range:	80 dB
Power Output:	200 Watts (RMS)
Phase Switch:	Yes, 0 or 180 degrees
Amplifier Type:	Class AB
Wireless Capability:	Yes - REL Arrow™ wireless system [required], Sold separately
Protection System	
Fully Electronic SET-SAFE:	Yes
D.C. Fault:	Yes
Output Short:	Yes
Mains Input Voltage:	220-240 volts, 110-120 volts for certain markets
Fuses:	2 Amp semi delay 230 volts operation 4 Amp semi delay 115 volts operation
Dimensions (WHD):	Including Feet and Rear Panel Controls 12 x 14.3 x 15 in., (305 x 362 x 382 mm) Add 1.75 in (44.5 mm) in depth when using Hi Level connector
Net Weight:	36 lbs. (16.3 kg)
Finish:	Gloss Piano Black or White Lacquer
Supplied Accessories	
Mains Lead:	Yes
Neutrik Speakon Interconnect:	Yes (10 Meters Nominal)
Users Manual:	Yes



T/5i Specifications

Type:	Closed Box, down-firing active woofer
Active Drive Unit:	8in., 200 mm long-throw, inverted dust cap, steel chassis
Lower Frequency Response:	32 Hz at -6 dB in room
Input Connectors:	Hi Level Neutrik Speakon, Lo Level single phono, LFE phono
Input Impedance:	High Level: 150k Ω , Low Level: 10k Ω , .1/LFE: 10k Ω
Gain Control Range:	80 dB
Power Output:	125 Watts (RMS)
Phase Switch:	Yes, 0 or 180 degrees
Amplifier Type:	Class AB
Wireless Capability:	Yes - REL Arrow™ wireless system [required], Sold separately
Protection System	
Fully Electronic SET-SAFE:	Yes
D.C. Fault:	Yes
Output Short:	Yes
Mains Input Voltage:	220-240 volts, 110-120 volts for certain markets
Fuses:	1.6 Amp semi delay 230 volts operation 3.15 Amp semi delay 115 volts operation
Dimensions (WHD):	Including Feet and Rear Panel Controls 10.5 x 12.5 x 12.7 in., (267 x 317 x 322 mm) Add 1.75 in (44.5 mm) in depth when using Hi Level connector
Net Weight:	26.5 lbs. (12 kg)
Finish:	Gloss Piano Black or White Lacquer
Supplied Accessories	
Mains Lead:	Yes
Neutrik Speakon Interconnect:	Yes (10 Meters Nominal)
Users Manual:	Yes

In the interest of product development, REL Acoustics Limited reserve the right to vary these specifications without notice.



