



OWNER'S MANUAL

KEN KREISEL
QUATTRO TriFX™ SERIES
SATELLITE SPEAKERS
KK-Q125TFX

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INTRODUCTION

Congratulations! Your new KEN KREISEL QUATTRO TFX™ surround speakers will give you years of enjoyment and listening pleasure.

We encourage you to read this owner's manual, as there is a lot of information provided here to help you get the optimum performance.

If you have any questions about your speaker system, please contact your KEN KREISEL dealer or email us at support@kreiselound.com. We will be happy to assist you with any questions.

The unsurpassed quality of your KEN KREISEL QUATTRO TFX™ Surround speaker system means that all of the excitement and emotional involvement of films and music will be brought to life in your home. Turn down the lights, and let the experience begin!

THE QUATTRO TriFX™ SURROUND SPEAKER

The QUATTRO TFX™ is an innovative concept in surround channel speaker design, invented by Ken Kreisel.

The QUATTRO TFX™ speaker can operate in three modes: TriFX™, Dipole and Direct Radiator. You can select these modes by inserting or removing a jumper on the back of the speaker. They can also be switched remotely by using an external speaker selector box..

In the Dipole mode, the QUATTRO TriFX™ radiates sound mostly from its left and right drivers in a figure-of-eight pattern with an acoustic null toward the front of the speaker.

In the TriFX™ mode the QUATTRO TFX™ features a unique 180 degree sound radiation pattern with DIRECT FRONT drivers and FIGURE 8 SIDE-FIRING drivers. The TriFX™ mode produces a near perfect 180 degree sound illumination pattern providing a very large side surround and/or back surround listening sweetspot, while still maintaining pin point location accuracy of the surround channel information.

It is recommended by Ken Kreisel that most users set the QUATTRO TFX™ to the TriFX™ mode (jumper in), which provides for the widest possible surround listening sweet spot with pin point location accuracy.

In the Direct Radiator mode, the QUATTRO TFX™ will radiate sound directly from the drivers on the front of the speaker with virtually no output from the Dipole (side) drivers.

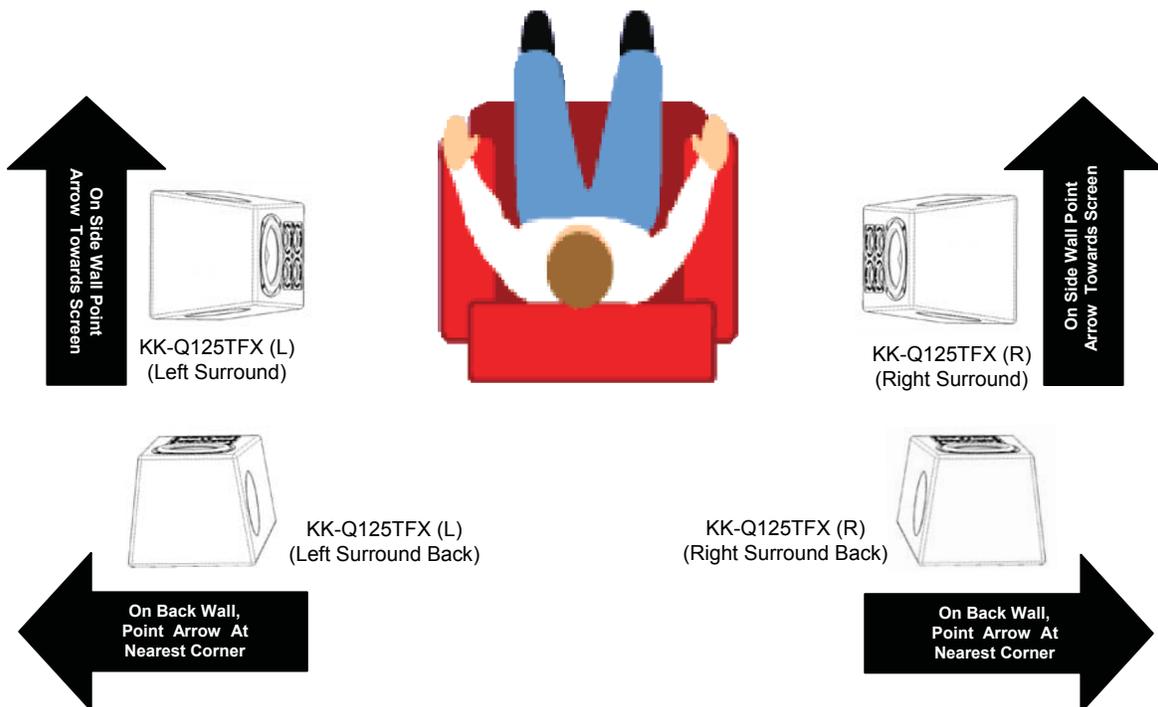
SPEAKER HOOK-UP

LEFT SURROUND SPEAKER / RIGHT SURROUND SPEAKER

Your QUATTRO TFX™ speakers come in left and right channel versions. Externally, both speakers may appear to be identical, but in fact it is critical that the correct speaker be used for each channel.

On the back of the QUATTRO TFX™ speaker is a label with an arrow printed with the nomenclature, "If this Surround Speaker is mounted: *On Side Wall, Point Arrow Towards Screen. *On Back Wall, Point Arrow At Nearest Corner." To correctly install the speakers, make sure that the arrow printed on each speaker is oriented properly.

If this Surround Speaker is Mounted:
* On Side Wall, Point Arrow Towards Screen
* On Back Wall, Point Arrow At Nearest Corner



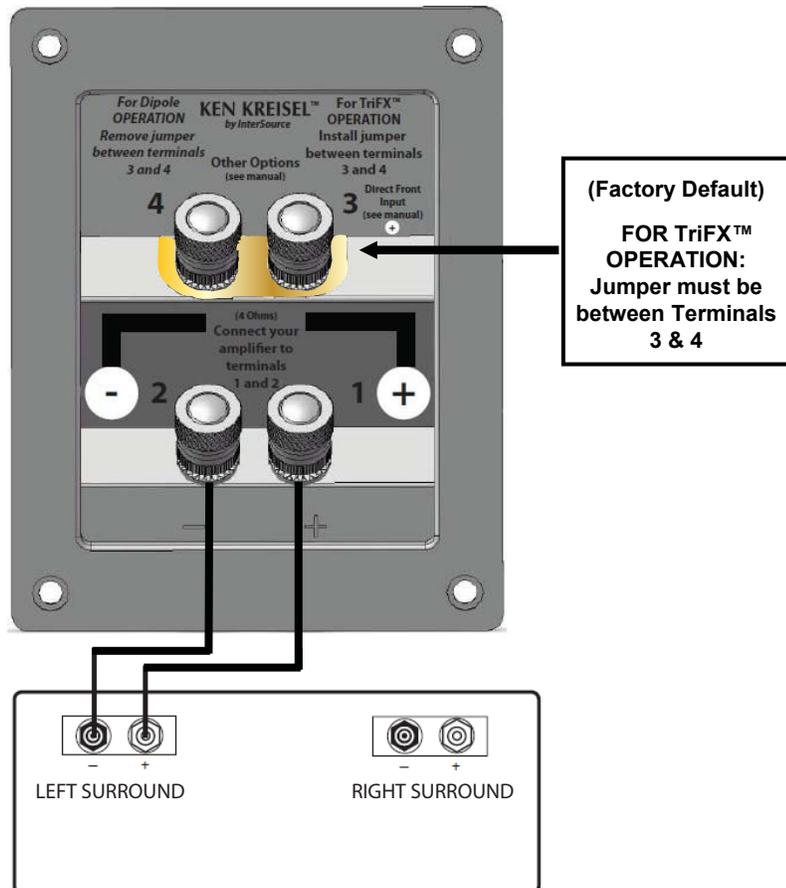
WIRING THE SURROUND SPEAKERS

The Positive (+) lead from the surround channel amplifier or receiver should be connected to the RED (+) terminal labeled "1", and the Negative (-) lead from the same surround channel on the amplifier or receiver should be connected to the BLACK (-) terminal labeled "2" (See Figure 1a).

Remember, regardless of which mode you operate the QUATTRO TFX™ in, the Ground (-) lead from the surround channel on your amplifier or receiver must **ALWAYS** be connected to the Negative (-) terminal labeled "2".

WIRING FOR THE TriFX™ MODE (Factory Default)

FIGURE 1a

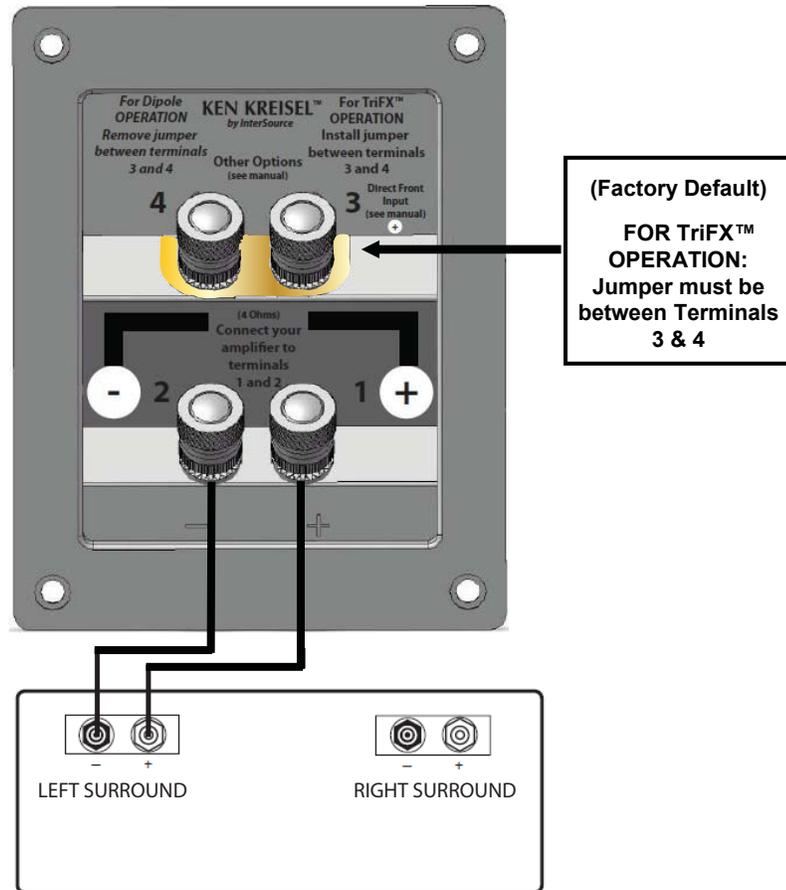


TriFX™ Mode

To operate in the TriFX™ mode, the jumper between the terminals labeled "3" and "4" must be in place (See Figure 1b). Please note that the speaker by Factory Default is in the TriFX™ mode.

WIRING FOR THE TriFX™ MODE (Factory Default)

FIGURE 1b



Dipole Mode

To operate the speaker in the Dipole mode, the jumper between the terminals labeled "3" and "4" must be removed. Do not throw away or lose this jumper. See Figure 2.

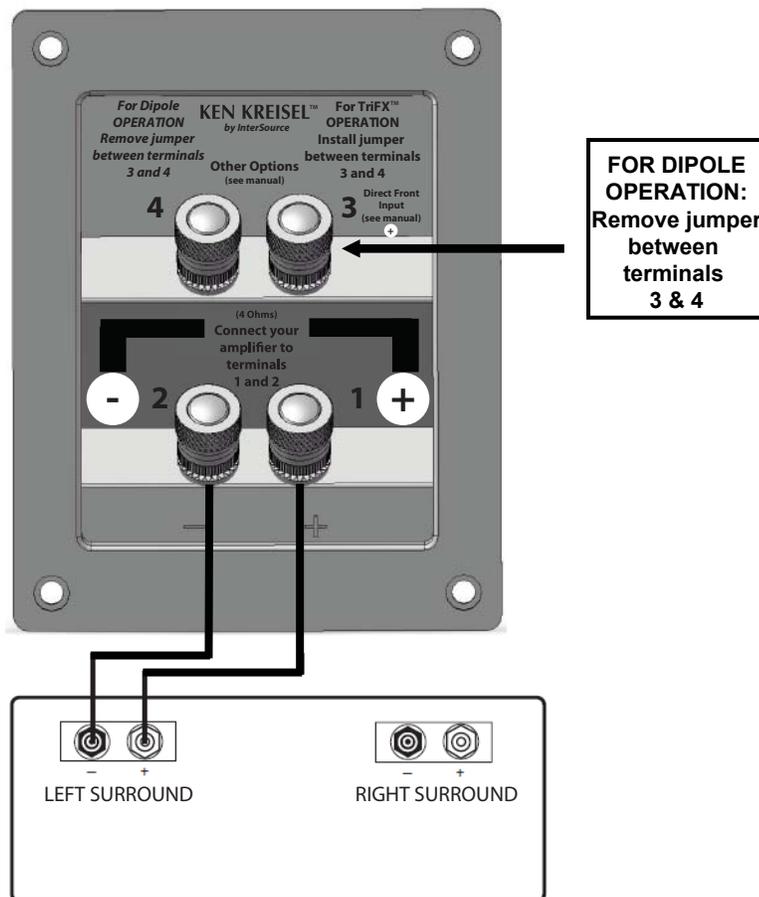
IMPORTANT:

The sensitivity of the Quattro TFX™ speaker is slightly higher in the TriFX™ mode, opposed to the Dipole mode. For critical listening, when switching from one mode to another, you should re-calibrate the level of the surround channels.

WIRING FOR DIPOLE OPERATION

Remove the Jumper between Terminals 3 and 4.

FIGURE 2



DIRECT RADIATOR ONLY MODE

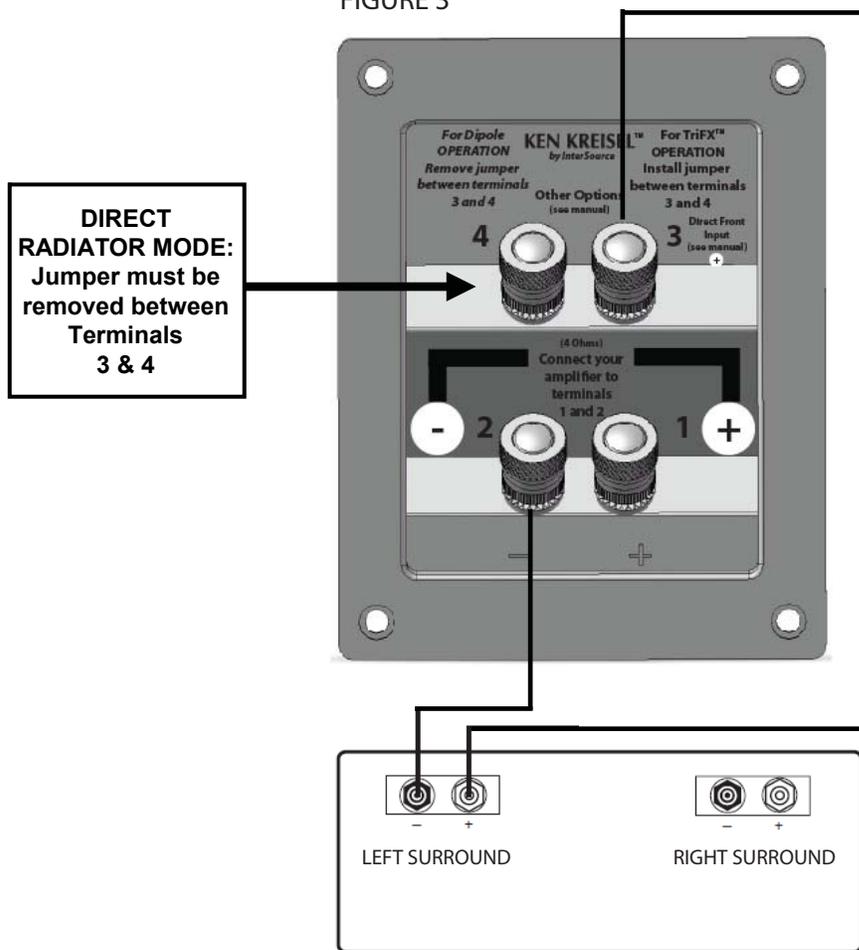
To operate in the the Direct Radiator mode, remove the jumper between terminals 3 & 4. Next connect the Positive (+) lead from the surround channel on your amplifier or receiver to the RED (+) terminal labeled "3", and the Negative (-) lead from the same surround channel on the amplifier or receiver to the BLACK (-) terminal labeled "2". Use no jumper (See Figure 3).

Remember, regardless of which mode you operate the QUATTRO TFX™ in, the Ground (-) lead from the surround channel on your amplifier or receiver must ALWAYS be connected to the Negative (-) terminal labeled "2".

WIRING FOR DIRECT RADIATOR ONLY MODE

Remove the Jumper
between Terminals 3 and 4.

FIGURE 3



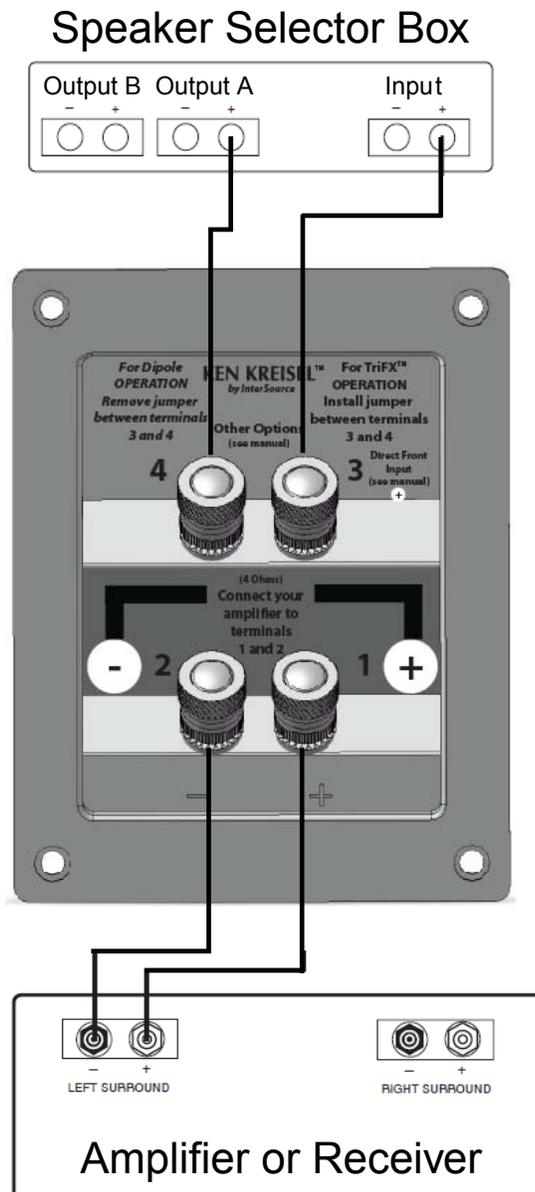
REMOTE SWITCHING OF SURROUND SPEAKER MODES

If you want to be able to switch between the TriFX™ mode and the Dipole mode, you can do so by using a speaker selector box. The specific instructions will vary according to the particular speaker selector box you are using and so this section is intended to be general in nature.

First of all make sure that the Positive (+) lead from the surround channel amplifier or receiver is connected to the RED (+) terminal labeled "1", and the Negative (-) lead from the same surround channel on the amplifier or receiver is connected to the BLACK (-) terminal labeled "2"

In order to be able to switch between the Dipole mode and the TriFX™ mode connect the Positive (+) lead from the speaker selector's INPUT to the RED (+) terminal labeled "3". Next connect a separate lead from one of the Positive (+) OUTPUTS on the speaker selector to terminal "4" (See Figure 4).

FIGURE 4



REMOTE SWITCHING OF SURROUND SPEAKER MODES....continued

To operate in the Dipole mode turn OFF or disengage the OUTPUT switch on the selector box that is connected to terminal "4" on the speaker.

To operate in the Tri FX™ mode turn ON or engage the OUTPUT switch on the selector box that is connected to terminal "4" on the speaker.

CAUTION: The Negative (-) output lead from the surround channel on your amplifier or receiver should ALWAYS be connected to the BLACK Negative (-) Terminal "2" on the speaker.

NEVER connect this lead to Terminals 1,3, or 4 on the speaker, as this will short the output of your amplifier or receiver and may damage the unit.

PLACEMENT OF THE QUATTRO TFX™ SURROUND SPEAKER

Your QUATTRO TFX™ speakers are designed to be used as surround side and/or surround back channel speakers.

Your KEN KREISEL TFX™ Surround speakers can be installed in a variety of ways. They can be placed on tall stands; shelves or bookcases; or more permanently mounted using a variety of wall mounts or ceiling mounts.

The TFX's great flexibility makes it very forgiving when it comes to room placement that is less than optimum. The speakers can either be mounted on the side walls or rear walls of a room relative to the listening position.

Please keep in mind that the QUATTRO TFX™ speakers are designed with a 7.5° angled front baffle to better focus the sound radiating from it to the listening position. In order to obtain optimum performance the QUATTRO TFX™ should be placed or mounted so that the four tweeters are on the bottom with the 5.25" driver on top as illustrated in Figure 5.

5.1 ROOM SPEAKER PLACEMENT

Generally in a 5.1 system, the QUATTRO TFX™ Surround speakers should be located at an angle of 7.5° on the side walls of the room, to the immediate Left & Right sides of the listening position. (see Figure 5 a/b & Chart A)

7.1, 9.1 & 11.1 SPEAKER PLACEMENT

In a 7.1, 9.1 or 11.1 system all the QUATTRO TFX™ Surround speakers should be located at an angle of 7.5° above ear level. The first pair of surround speakers should be on the side walls of the room to the immediate Left & Right sides of the listening position. (see Figure 5 a/b & Chart A)

a. SPEAKER POSITION RELATIVE TO SEATING

In a 5.1 System, the speakers should be located on the side walls adjacent to the seating position. If there is one row of seats, the speakers should be located directly to the left and to the right of this row of seats. See Figure 6. If there are multiple rows of seats, then the speakers should be located directly to the left and right of the geometric center of the listening area. See Figure 7.

If the speakers cannot be located directly to the sides of the seating area, it is better for them to be towards the back of the room, behind the listening position, rather than in the front of the room.

b. SPEAKER PLACEMENT RELATIVE TO LISTENERS EARS

Optimally the TFX surround speakers should be located above the primary listener's ears at an angle of 7.5°.

c. USE OF MULTIPLE PAIRS OF SURROUNDS in:

5.1, 7.1, 9.1 & 11.1 SYSTEMS

Some listeners prefer multiple pairs of surround speakers. In very large rooms, this may even be necessary. Multiple surround speakers can make a dramatic improvement by providing a broader and deeper immersive surround effect field, similar to the sound experiences at a public movie theater (See Figure 8). When using two pairs of TriFX surround speakers, make sure that the speakers on the back wall have their arrows pointed at the nearest corner

Note: Under ideal conditions, the back surround speakers should be located with the identical spacing in between them as the front Left and Right speakers See Figure 8. In some listening situations, this may not be possible. Experiment with various locations within your listening situation to locate the optimum location for the back surround speakers.

FIGURE 5a

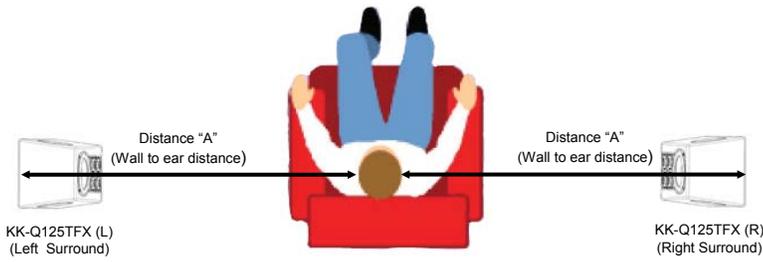


FIGURE 5b

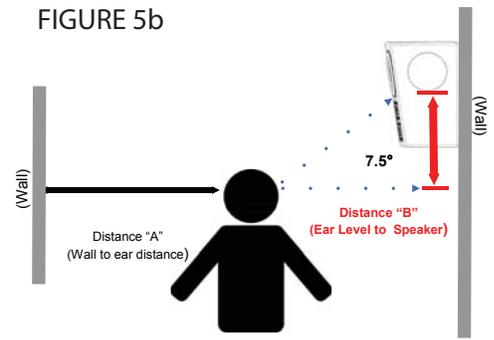


CHART A

Distance "A" - From Listening Position To Side Wall - in Feet																		
3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4.7"	6.3"	7.9"	9.5"	11"	12.6"	14.2"	15.8"	17.4"	19.0"	20.5"	22.1"	23.7"	25.3"	26.9"	28.4"	30.0"	31.6"	
Distance "B" - Vertical Measurement That Speaker Should Be Mounted Above Ear Level - in Inches																		

FIGURE 6

KK-Q125 TFX and Derivatives
SPEAKER PLACEMENT
(Single Row Seating)

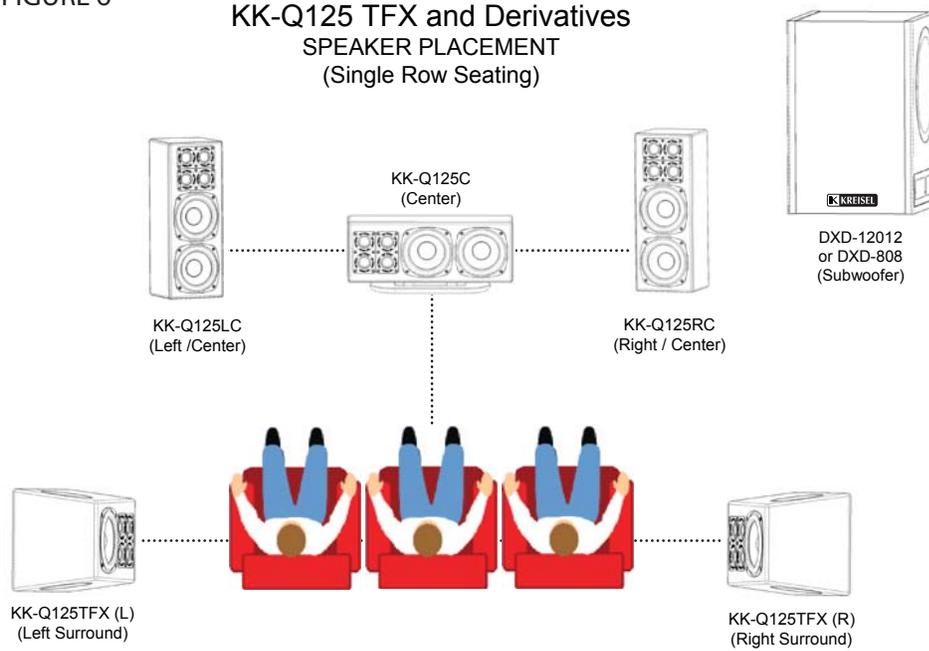


FIGURE 7

KK-Q125 TFX and Derivatives
SPEAKER PLACEMENT
(Multiple Row Seating with 4 Surround Speakers)

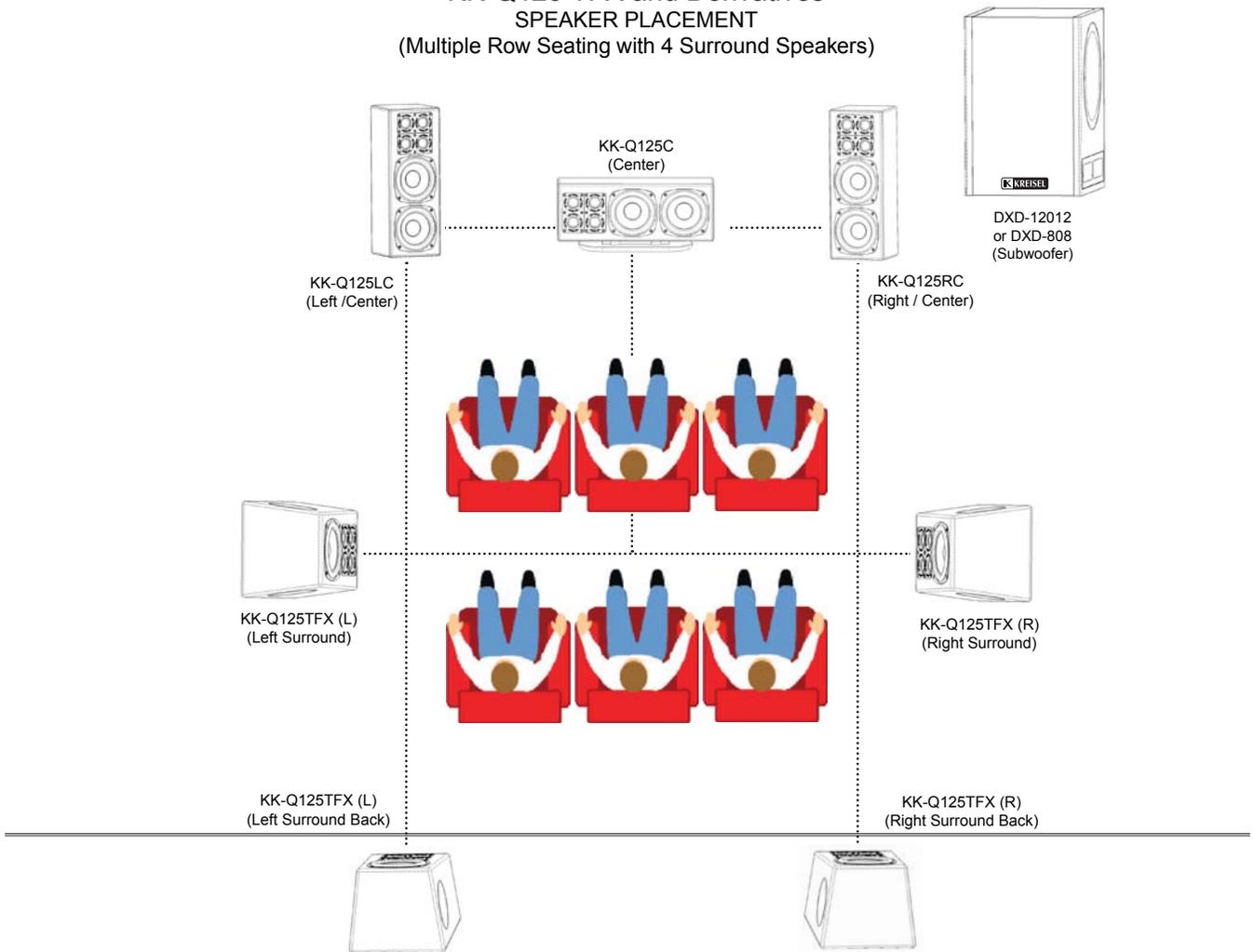
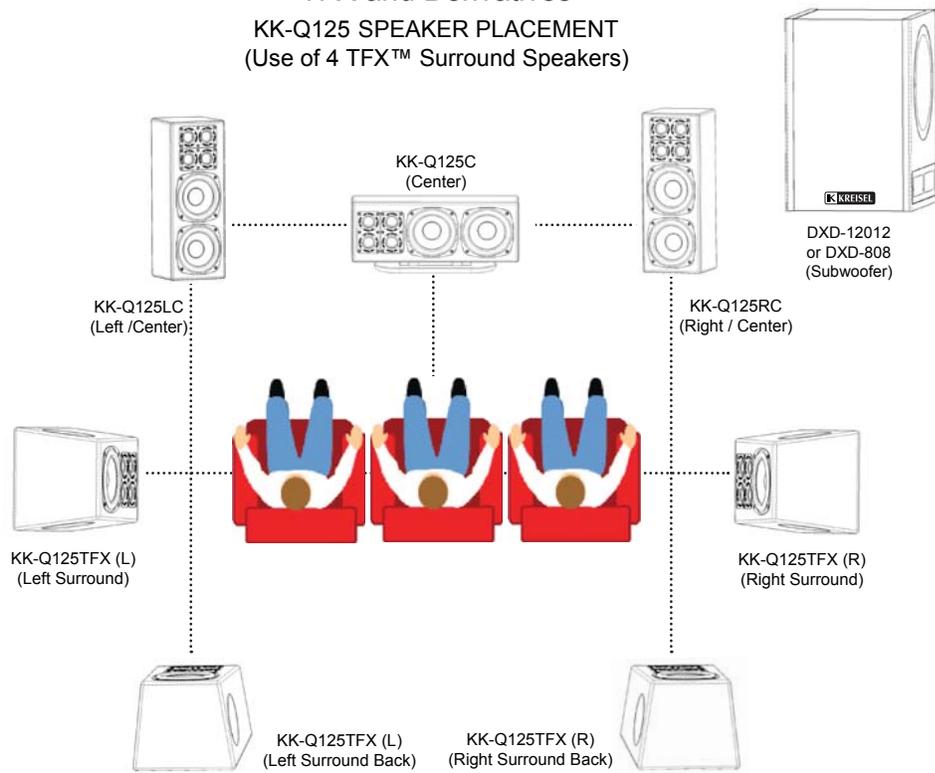


FIGURE 8

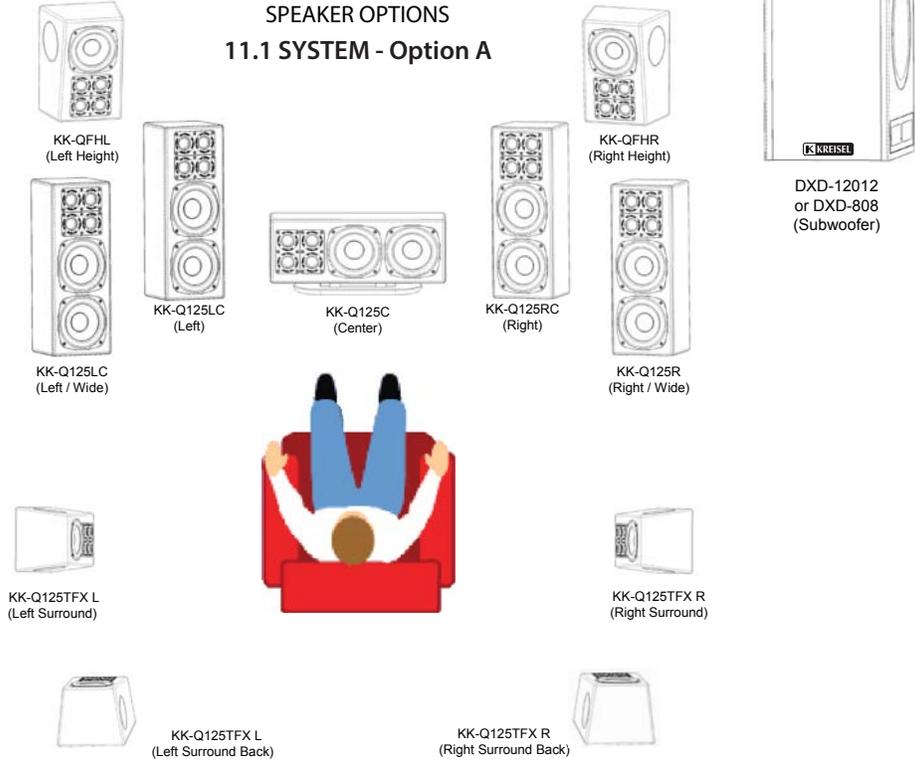
TFX and Derivatives
KK-Q125 SPEAKER PLACEMENT
(Use of 4 TFX™ Surround Speakers)



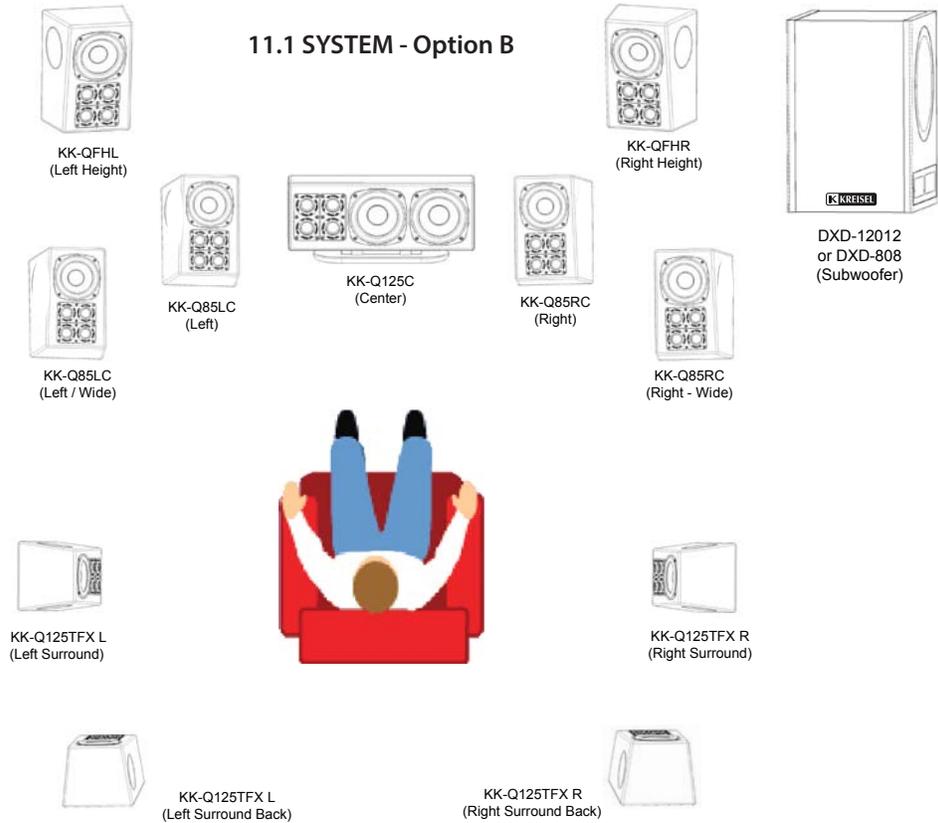


KEN KREISEL QUATTRO SERIES
SATELLITE SPEAKER PLACEMENT &
SPEAKER OPTIONS

11.1 SYSTEM - Option A



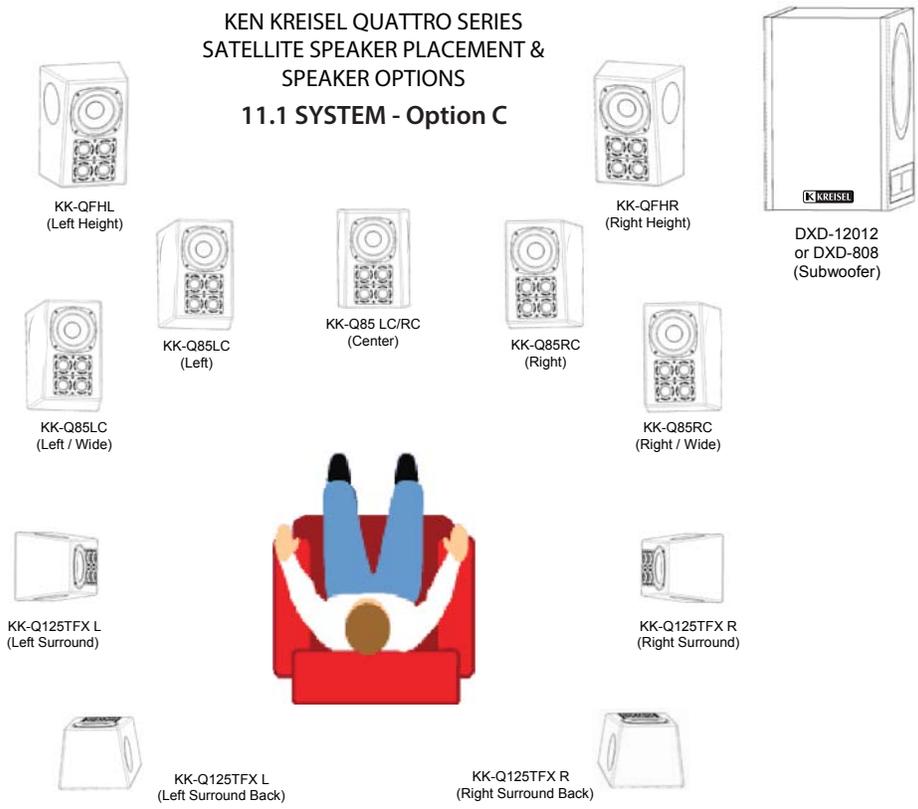
11.1 SYSTEM - Option B



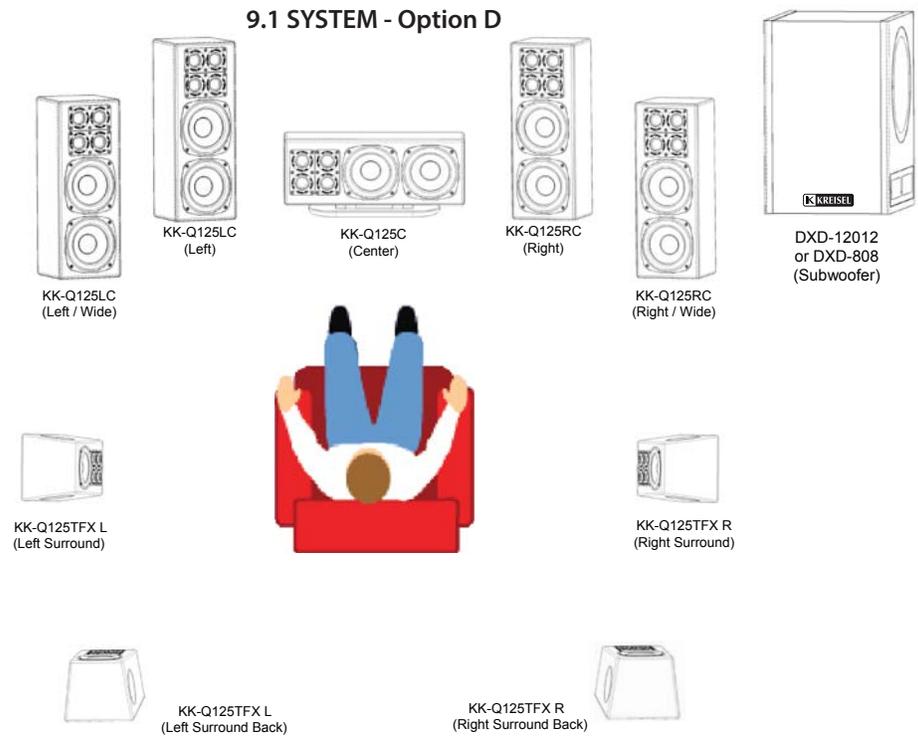


KEN KREISEL QUATTRO SERIES
SATELLITE SPEAKER PLACEMENT &
SPEAKER OPTIONS

11.1 SYSTEM - Option C



9.1 SYSTEM - Option D



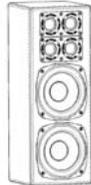


KEN KREISEL QUATTRO SERIES
SATELLITE SPEAKER PLACEMENT &
SPEAKER OPTIONS

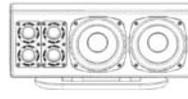
9.1 FRONT WIDE SYSTEM - Option E



KK-Q85LC
(Left / Wide)



KK-Q125LC
(Left)



KK-Q125C
(Center)



KK-Q125RC
(Right)



KK-Q85RC
(Right / Wide)



DXD-12012
or DXD-808
(Subwoofer)



KK-Q125TFX L
(Left Surround)



KK-Q125TFX R
(Right Surround)



KK-Q125TFX L
(Left Surround Back)



KK-Q125TFX R
(Right Surround Back)

9.1 FRONT WIDE SYSTEM - Option F



KK-Q85LC
(Left / Wide)



KK-Q85LC
(Left)



KK-Q85 LC/RC
(Center)



KK-Q85RC
(Right)



KK-Q85RC
(Right / Wide)



DXD-12012
or DXD-808
(Subwoofer)



KK-Q125TFX L
(Left Surround)



KK-Q125TFX R
(Right Surround)



KK-Q125TFX L
(Left Surround Back)



KK-Q125TFX R
(Right Surround Back)



KEN KREISEL QUATTRO SERIES
SATELLITE SPEAKER PLACEMENT &
SPEAKER OPTIONS

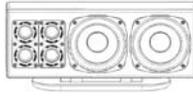
9.1 FRONT HEIGHT SYSTEM - Option G



KK-QFHL
(Left Height)



KK-Q125LC
(Left)



KK-Q125C
(Center)



KK-Q125RC
(Right)



KK-QFHR
(Right Height)



DXD-12012
or DXD-808
(Subwoofer)



KK-Q125TFX L
(Left Surround)



KK-Q125TFX R
(Right Surround)



KK-Q125TFX L
(Left Surround Back)



KK-Q125TFX R
(Right Surround Back)

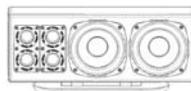
9.1 FRONT HEIGHT SYSTEM - Option H



KK-QFHL
(Left Height)



KK-Q85LC
(Left)



KK-Q125C
(Center)



KK-Q85RC
(Right)



KK-QFHR
(Right Height)



DXD-12012
or DXD-808
(Subwoofer)



KK-Q125TFX L
(Left Surround)



KK-Q125TFX R
(Right Surround)



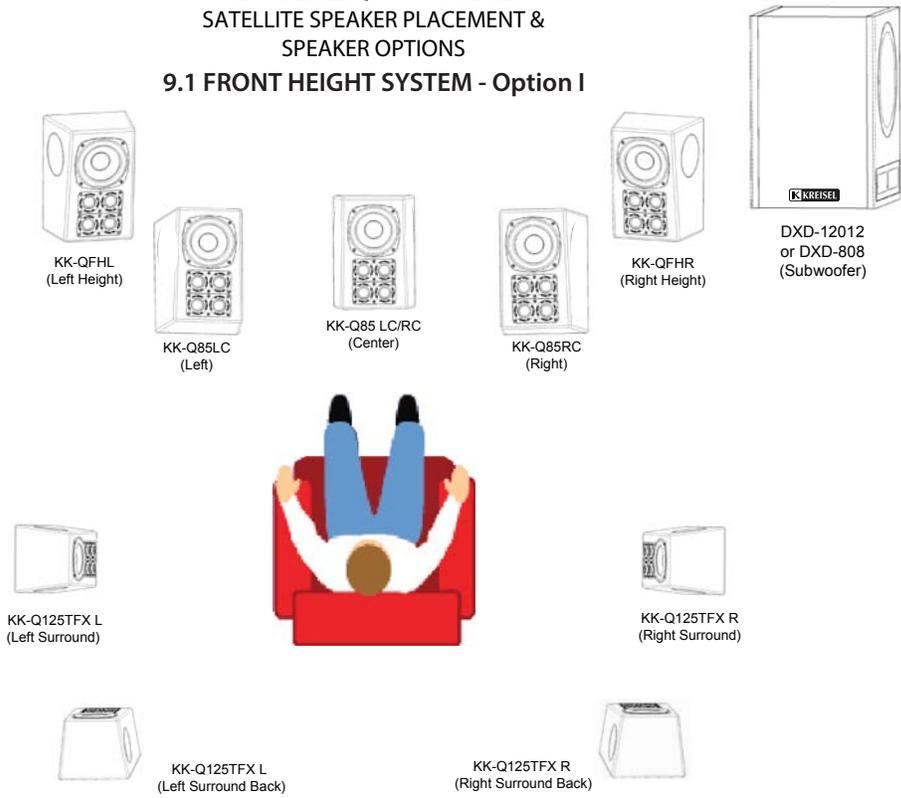
KK-Q125TFX L
(Left Surround Back)



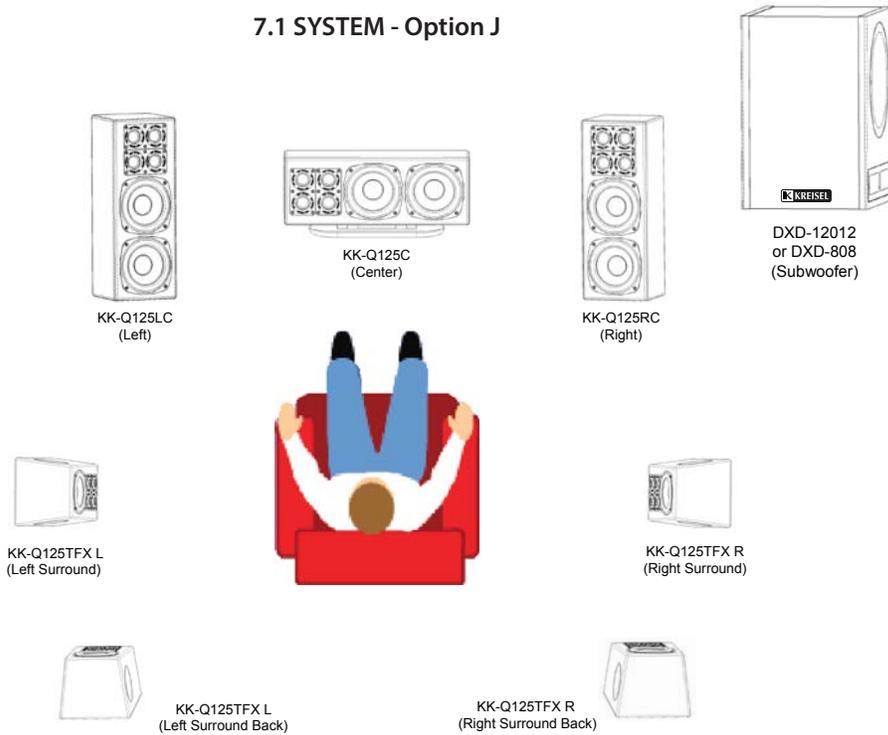
KK-Q125TFX R
(Right Surround Back)



KEN KREISEL QUATTRO SERIES
SATELLITE SPEAKER PLACEMENT &
SPEAKER OPTIONS
9.1 FRONT HEIGHT SYSTEM - Option I



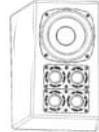
7.1 SYSTEM - Option J





KEN KREISEL QUATTRO SERIES
SATELLITE SPEAKER PLACEMENT &
SPEAKER OPTIONS

7.1 SYSTEM - Option K



KK-Q85LC
(Left)



KK-Q125C
(Center)



KK-Q85RC
(Right)



DXD-12012
or DXD-808
(Subwoofer)



KK-Q125TFX L
(Left Surround)



KK-Q125TFX R
(Right Surround)



KK-Q125TFX L
(Left Surround Back)



KK-Q125TFX R
(Right Surround Back)

7.1 SYSTEM - Option L



KK-Q85LC
(Left)



KK-Q85 LC/RC
(Center)



KK-Q85RC
(Right)



DXD-12012
or DXD-808
(Subwoofer)



KK-Q125TFX L
(Left Surround)



KK-Q125TFX R
(Right Surround)



KK-Q125TFX L
(Left Surround Back)

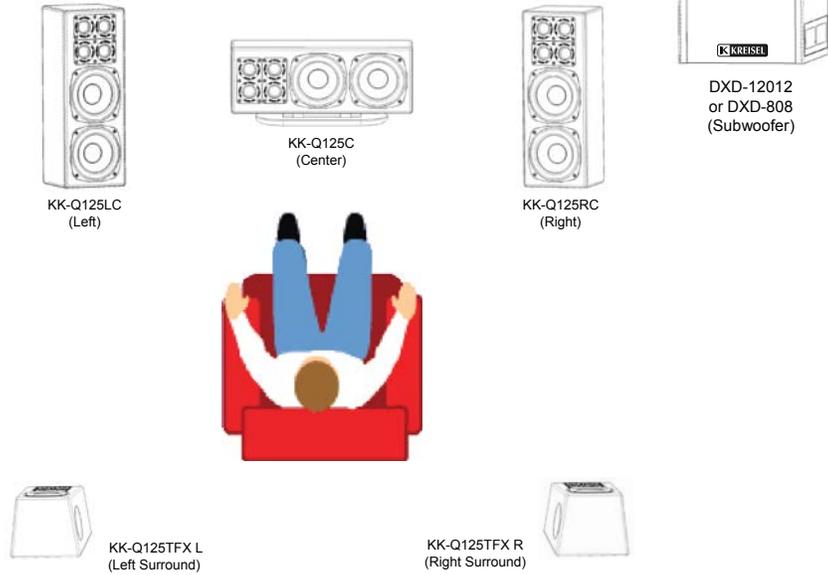


KK-Q125TFX R
(Right Surround Back)

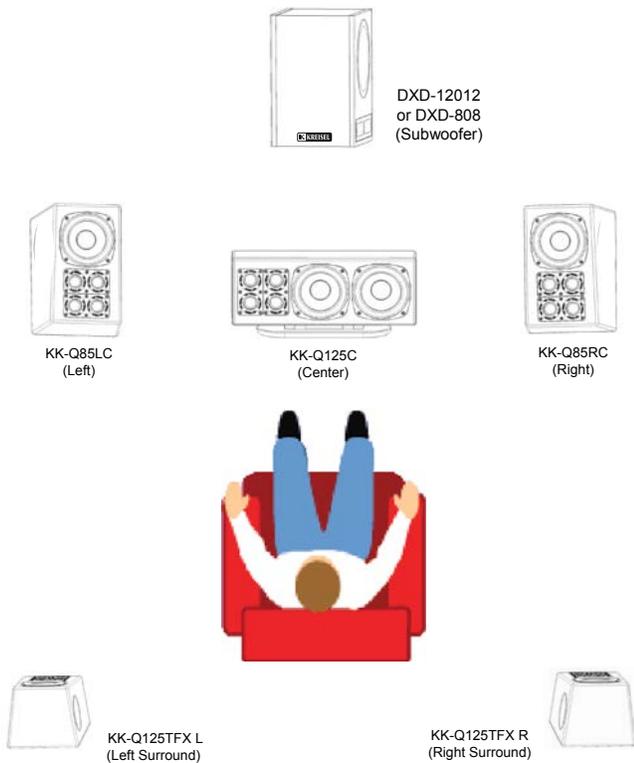


KEN KREISEL QUATTRO SERIES
SATELLITE SPEAKER PLACEMENT &
SPEAKER OPTIONS

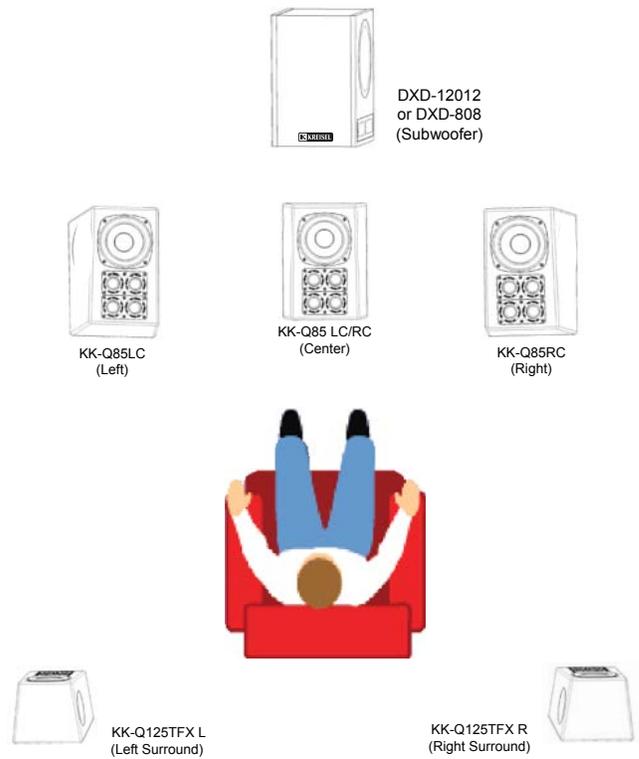
5.1 SYSTEM - Option M



5.1 SYSTEM - Option N



5.1 SYSTEM - Option O



SPECIFICATIONS

Model	KK-Q125TFX
Dimensions:	HxWxD = 11 5/16" x 8. 3/16" x 7 3/8" HxWxD = 287mm x 208mm x 188 mm)
Weight (ea)	14.3 lbs each
Frequency Response	100Hz - 25kHz (anechoic) 80Hz - 25kHz (in-room response near a wall or on a stand)
Suggested Bass Management Frequency	80Hz - 100Hz 2nd order (12dB/octave) Linkwitz-Riely high pass filter
Front Driver Configuration	Single 5.25" midrange with aluminum cast basket and four newly developed Super-Transmission Line, High Output-Low Resonance 1" softdome tweeters with KEN KREISEL Deep Cooling Aluminum Faceplates™
Side Driver Configuration	Two - 3" TriFX™ Full-Range side drivers
Cabinet Design	Sealed box for the best transient response and also for the best crossover blend with a subwoofer. Front baffle angled at 7.5°.
Impedance	4 Ohms

Specifications subject to change without notice.

For additional help visit our support page on the web at: www.kreiselound.com/support.php

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