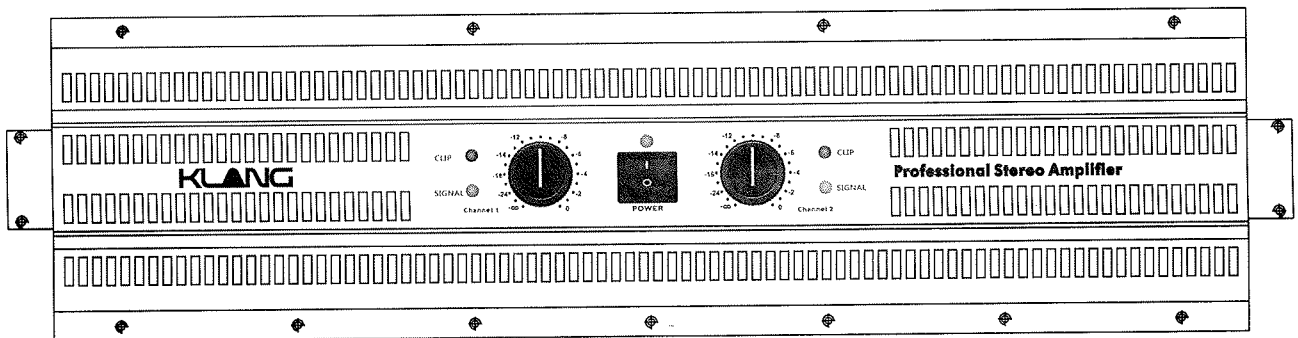
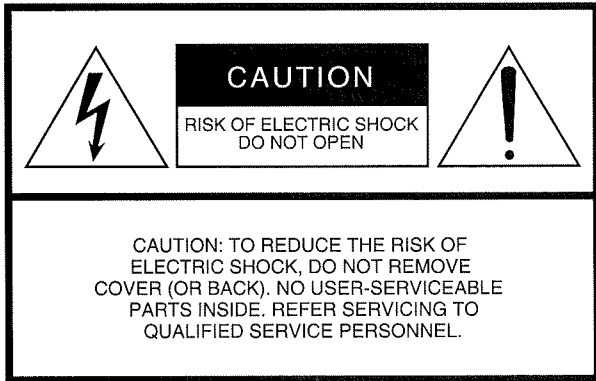


KLANG

Professional Power Amplifier
Owner's Manual

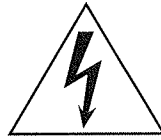


***A Series* (2CH)**
USER MANUAL

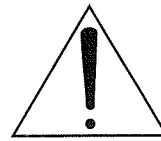


The above warning is located on the top of the unit

? Explanation of Graphical Symbols



The lightning flash with arrowhead symbol within an equilateral triangle is 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.



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 product.

IMPORTANT SAFETY INSTRUCTIONS

- 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 dry cloth.
- 7 Do not block any ventilation openings. 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 polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, 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 the 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.




IMPORTANT NOTICE FOR THE UNITED KINGDOM Connecting the Plug and Cord

WARNING: THIS APPARATUS MUST BE EARTHED
IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

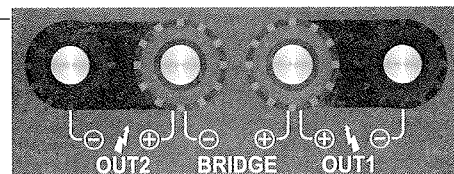
GREEN-AND-YELLOW : EARTH
BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or colored GREEN or GREEN-and-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

WARNING

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



This ⚡ mark indicates a dangerous electrically live terminal. When connecting an external wire to this terminal, it is necessary either to have "a person who have received appropriate guidance on handling" make the connection or to use leads or a cord that have been manufactured in such a way that the connection can be made simply and without problem.

Precautions

— For safe operation —

⚠ WARNING

Installation

- Connect this unit's power cord only to an AC outlet of the type stated in this Owners Manual or as marked on the unit. Failure to do so is a fire and electrical shock hazard.
- Do not allow water to enter this unit or allow the unit to become wet. Fire or electrical shock may result.
- Do not place a container with liquid or small metal objects on top of this unit. Liquid or metal objects inside this unit are a fire and electrical shock hazard.
- Do not place heavy objects, including this unit, on top of the power cord. A damaged power cord is a fire and electrical shock hazard. In particular, be careful not to place heavy objects on a power cord covered by a carpet.
- Be sure to connect to an appropriate outlet with a protective grounding connection. Improper grounding can result in electrical shock.

Operation

- Do not scratch, bend, twist, pull, or heat the power cord. A damaged power cord is a fire and electrical shock hazard.
- Do not remove the unit's cover. You could receive an electrical shock. If you think internal inspection, maintenance, or repair is necessary, contact your dealer.

- Do not modify the unit. Doing so is a fire and electrical shock hazard.
- If lightning begins to occur, turn off the power switch of the unit as soon as possible, and unplug the power cable plug from the electrical outlet.
- If there is a possibility of lightning, do not touch the power cable plug if it is still connected. Doing so may be an electrical shock hazard.

In case an abnormality occurs during operation

- If the power cord is damaged (i.e., cut or a bare wire is exposed), ask your dealer for a replacement. Using the unit with a damaged power cord is a fire and electrical shock hazard.
- Should this unit be dropped or the cabinet be damaged, turn the power switch off, remove the power plug from the AC outlet, and contact your dealer. If you continue using the unit without heeding this instruction, fire or electrical shock may result.
- If you notice any abnormality, such as smoke, odor, or noise, or if a foreign object or liquid gets inside the unit, turn it off immediately. Remove the power cord from the AC outlet. Consult your dealer for repair. Using the unit in this condition is a fire and electrical shock hazard.

⚠ CAUTION

Installation

- Keep this unit away from the following locations:
 - Locations exposed to oil splashes or steam, such as near cooking stoves, humidifiers, etc
 - Unstable surfaces, such as a wobbly table or slope.
 - Locations exposed to excessive heat, such as inside a car with all the windows closed, or places that receive direct sunlight.
 - Locations subject to excessive humidity or dust accumulation.
- Do not place the power cord close to a heater. It may melt, causing fire or electrical shock.
- Hold the power cord plug when disconnecting it from an AC outlet. Never pull the cord. A damaged power cord is a potential fire and electrical shock hazard.
- Do not touch the power plug with wet hands. Doing so is a potential electrical shock hazard.
- This unit has ventilation holes at the front and rear to prevent the internal temperature rising too high. Do not block them. Blocked ventilation holes are a fire hazard. In particular, do not
 - place the unit on its side or upside down,
 - place the unit in any poorly-ventilated location such as a bookcase or closet (other than on the dedicated rack),
 - cover the unit with a table cloth or place it on a carpet or bed.
- Allow enough free space around the unit for normal ventilation. This should be: 5 cm at the sides, 10 cm behind, and 10 cm above. If the airflow is not adequate, the unit will heat up inside and may cause a fire.
- To mount several of these units in a standard EIA rack, refer to the rack mounting instructions on page 11.

- To relocate the unit, turn the power switch off, remove the power plug from the AC outlet, and remove all connecting cables. Damaged cables may cause fire or electrical shock.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.
- Do not place the device in a location where it may come into contact with corrosive gases or salt air. Doing so may result in malfunction.

Operation

- Use only speaker cables when connecting speakers to amplify outputs. Using other types of cables is a fire hazard.
- Turn off all musical instruments, audio equipment, and speakers when connecting to this unit. Use the correct connecting cables and connect as specified.
- Always lower the volume control to minimum before turning on the power to this unit. A sudden blast of sound may damage your hearing.
- Do not use this amplifier for any purpose other than driving loudspeakers.
- If you know you will not use this unit for a long period of time, such as when going on vacation, remove the power plug from the AC outlet. Leaving it connected is a potential fire hazard.

Connector pin assignments

- XLR-type connectors are wired as follows
Pin 1: ground; Pin 2: hot (+); Pin 3: cold (-)

Interference from Cell Phones

- Use of a mobile phone near this unit may induce noise. If noise

Introduction

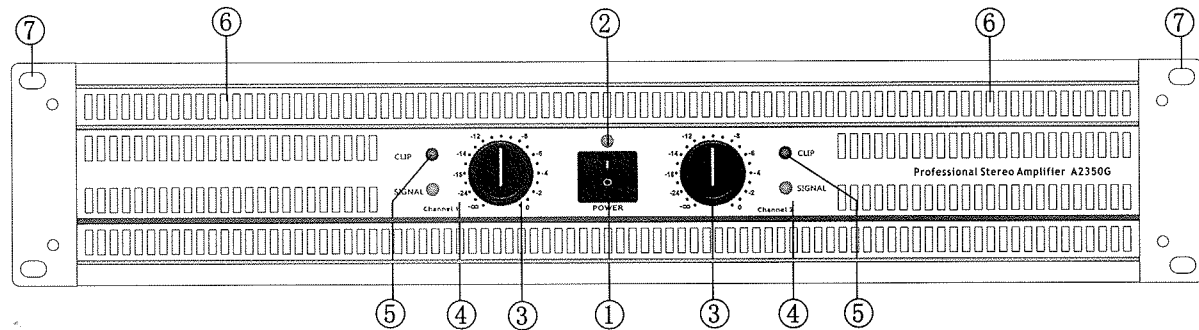
Thank you for your purchase of the A series power amplifier. These A series amplifiers fully incorporate our own technological expertise, and offer high reliability, rock-solid stability, and superb acoustic characteristics all in a trim, 2U sized package.

Features

- With balanced XLR input jacks and two types of output jacks (Speakon, 4-way binding post), the A series is suitable for a wide variety of applications and installed systems.
- The unit offers two operating modes: STEREO (where CH1 and CH2 operate independently), PARALLEL (where the unit outputs a CH1 source through twin amplifier systems, Volume control independently).
- Each channel is equipped with an independent SIGNAL/CLIP switch indicator.
- Variable-speed low-noise fans ensure high reliability when the unit is running hot. This Owner's Manual covers the A series power amplifiers. Please read through this manual carefully before beginning use, so that you will be able to take full advantage of the amplifier's superlative features and enjoy trouble-free operation for years to come. After reading through the manual, please store it in a safe place.

Controls and Functions

■ Front Panel



1. POWER switch

Press to toggle the power on or off. The POWER indicator lights up green when the power is ON.

2. Power source indicator

Power indicator light up when unit is turn on ,the power amplifier is connect with power and will be running works within 5-7 seconds . .

3. Volume control knobs

Each control knob adjusts the volume of the corresponding channel from $-\infty$ dB to 0 dB.

4. SIGNAL indicator

Lights up green when the corresponding channel's output level exceeds 5 Vrms (equivalent to 3 W into an 8Ω load, or 6 W into a 4Ω load)

5. CLIP indicator

Lights up red when the output signal distortion on the corre-sponding channel rises above 1%-indicating that "Clipping" has occurred because the signal level is too high.

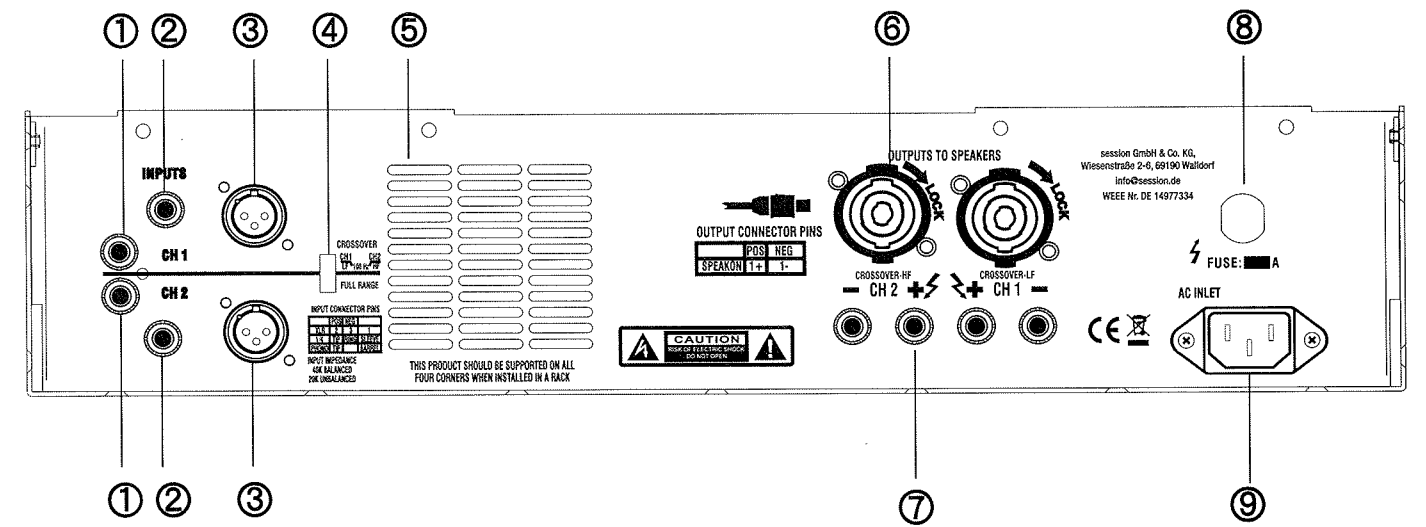
6. Air intakes

The amplifier uses forced-air cooling. The cooling fans draw air in from the front and exhaust it through the rear. Please be sure that you do not block the air intakes or exhaust vents.

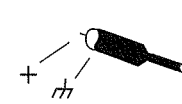
7.Install the security cover

When install 19'inch (2RU) rack mounting,please use the #10 or 6mm screws from amplifier

■ Rear Panel



1. Unbalanced Phono Input



Accepts line level signals, recommended for semi-permanent connections to nearby sources within the same rack.

2.Balanced 1/4\"/>



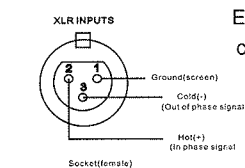
Accepts line level signals, recommended for long or short runs that are frequently changed.

Unbalanced 1/4\"/>



Accepts line level signals, recommended for short runs that are frequently changed.

3.Balanced XLR Input



Each channel XLR jack and TRS jack as internal connected.

4.Crossover Switch – Crossover Position



Splits a full - range signal to drive a separate subwoofer and top box. CH1 receives the lows, from 20-100Hz for the subwoofer. CH2 receives the 100Hz-20kHz range to power a full-range top box speaker. When using the CROSSOVER mode, connect the signal to CH1 input only. Us the two Gain controls to balance the LF and HF signal levels (see front panel)

Crossover Switch – Full Range Position

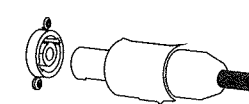


For normal, 2-channel use with all inputs active. (the crossover is bypassed)

5. Air intakes

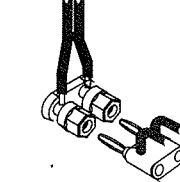
Don't cover the air intakes.Please clean your dust filter every 30 days.

6. SPEAKON output



Locking speaker connectors(2-pole type), insert and turn until the connector clicks. Use the thumb latch or locking ring to release the plug.

7. Binding Post Output



use banana plug,bare wire or terminals to insert.

8. Fuse

If the amplifier work overload for a long time or cause a failure,the fuse will be broken.

9. AC input

Use the local area AC source

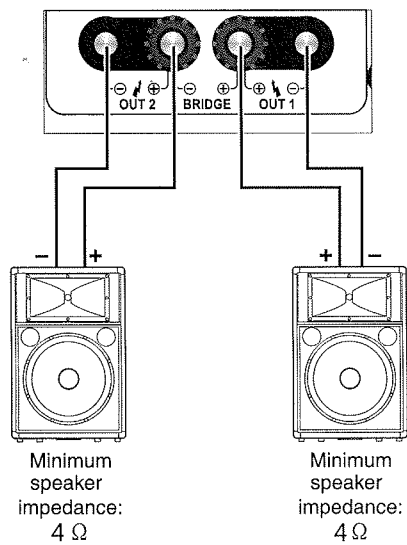
Speaker Connections

Speaker impedance

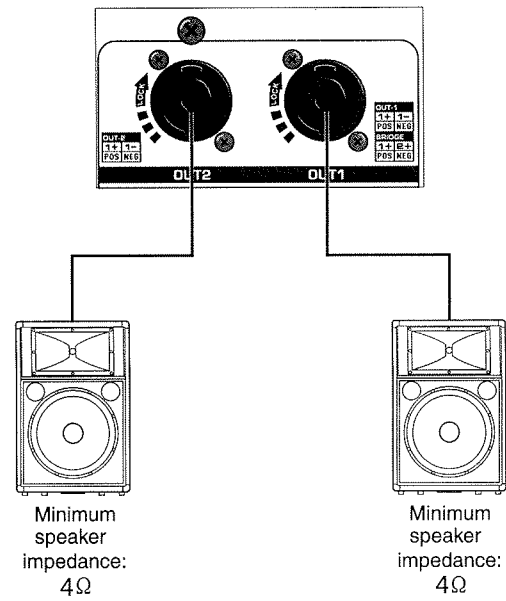
Speakers can be connected to the amplifier as shown below. Note that speaker impedance will vary according to the connection method and the number of speakers. Please be sure that your speaker's impedance is not less than the relevant minimum value indicated below.

Stereo mode connection

When using 4-way binding post output jacks



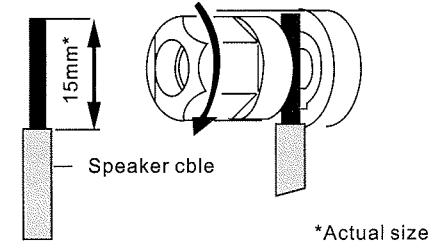
When using Speakeon connector



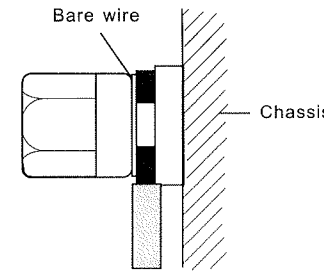
Wiring

4-way binding post

- Turn off the POWER switch.
- Remove about 15 mm of insulation from the end of each speaker cable, and pass the bare wire through the holes in the appropriate speaker terminals. Tighten the terminals to securely clamp the wires.



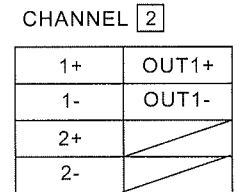
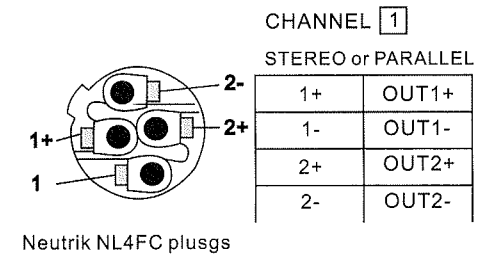
Be sure that bare wire ends do not jut out from the terminals and touch the chassis. The following shows how the cable should look when correctly attached.



Speakeon connector

- Turn off the POWER switch.
- Insert the Neutrik NL4FC plugs into the Speakeon connector on the rear of the amplifier, and turn clockwise to lock.

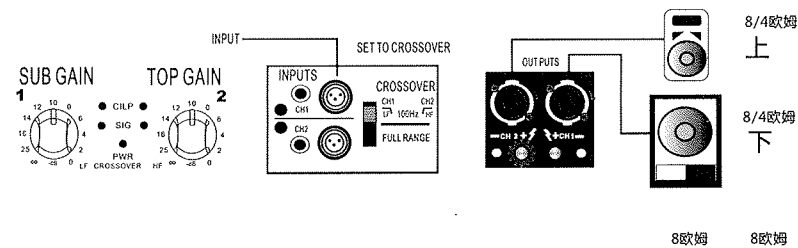
Neutrik NL4FC plugs



System hookup examples

Subwoofer and Top Box

Move the switch to the CROSSOVER position. Connect a single source into the CH1 input, connect a subwoofer to the CH1 output and connect a 2-way to box to the CH2 output.



Specifications

SPECIFICATIONS

Model	A2150G	A2250G	A2350G	A2500G
Out Power @ 8 Ω	2x150W	2x250W	2x350W	2x500W
Out Power @ 4 Ω	2x220W	2x375W	2x520W	2x750W
Frequency Response	15Hz-25KHz(+0/-1dB)			
THD 20Hz-20kHz 8Ω	<0.03%	<0.03%	<0.035%	<0.035%
Signal to Noise	>102dB	>102dB	>105dB	>105dB
Slew Rate	40V/uS			
Damping Factor	>400:1			
Input Sensitivity	selectable 1.2V			
Input Impedance(Ω)	More than 20K ohm(balanced or unbalanced)			
Input Connectors	three-pin XLR, 1/4"TRS, phono, balanced,non equilibrium signal input			
Output Circuitry	Class AB		Class H	
Output Connectors	Speakon, binding post			
Protection	Short circuit,open circuit,thermal,RF protection Load protected against DC faults			
Cooling Pattern	High/Low Automatism Control			
Power Supply Voltage	(115V/230V)Can offer different voltage according client's requirement.			
Dimensions(WxDxH)	435x300x88.8mm(2U)			

Troubleshooting

The following table lists the main causes of abnormal operation and the corrective measures required, as well as the protective circuit operation in each case.

Indicator(s)	Possible Cause	Remedy	Protection Circuit
CLIP indicator lights.	There is a short at a speaker terminal, amplifier terminal, or wire.	Locate and correct the cause of the short.	The PC limiter circuit operates to protect the power transistors.
	The amplifier load is excessive.	Use a speaker system with an impedance of at least 4 Ω (STEREO/PARALLEL mode) or 8 Ω (BRIDGE mode).	
PROTECTION indicator lights.	The heat sink temperature has exceeded 95°C (203°F)	Check the ventilation slots, and provide better airflow around the amplifier.	The thermal protection circuit operates to protect the power transistors.
	Amplifier output overload more than ±2V or more than this	Consult your dealer or the nearest service center.	The protection circuitry shut off the power to protect the speaker system.

- Amplifier maintain :
The unit must repair when as below un-security case . please disconnected the amplifier from AC power source .
- Amplifier is smoking and scorching
- Unit cover case deformation
- Unit wet by fluid
- Unit accessories had been fetch away
- AC Circuit Breaker is disconnected always
- Please check the unit should be fetch away or damage after drop somewhere