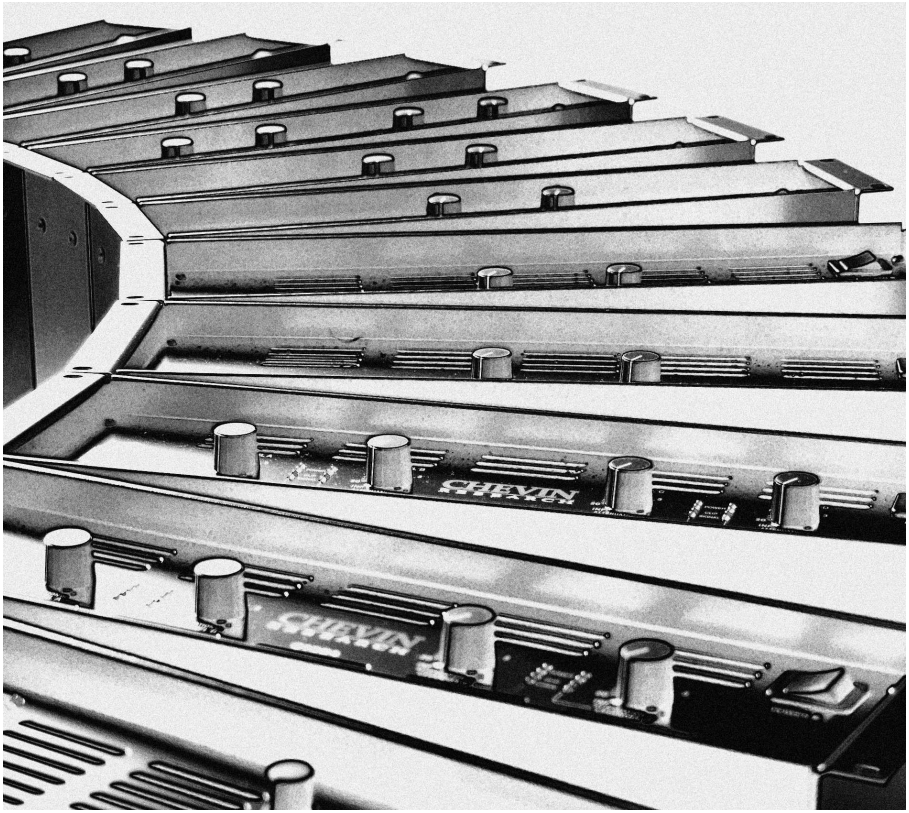
CHEVIN®
RESEARCH

USER MANUAL

for

PROFESSIONAL POWER AMPLIFIERS:

A500 • A700v • A750 • A1000 • A1004 • A1500 • A2000 • A3000 • A4000
A5000 • A5003 • A6000 • Q6 • Q900 • Q1004 • QB1000/600 • Line250 • Line500



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Installation

Box contents

In addition to your amplifier and this manual, the carton should contain the following items:

- **Neutrik® Speakon® plugs**, depending on your amplifier model:
  - Line250, Line500 — no Speakon plugs
  - A700v: — one Speakon plug
  - Q6, Q1004, QB1000/600, Q900: — four Speakon plugs
  - All other models: — two Speakon plugs
- **A500 and A700v only**. Detachable power cable with IEC connector.
- **Warranty card**. Please complete this card and return it to Chevin Research. Failure to register may result in delays if you require warranty service. See rear cover for warranty.

Positioning

- Your amplifier must have good ventilation. Air is drawn in at the rear panel and is expelled at the front. It is vital to keep front and rear of unit free from obstruction.
- Your amplifier may be used free-standing or installed in a 19" rack. If installed in a rack, the rear of the chassis should be supported. Rear rack-mount supports are integral on all models except the A500 & A700v.

Power

Wiring

- EARTHING: All Chevin amplifiers **must** be earthed.
- A500 & A700v models connect to the mains supply via a supplied detachable power cable.
- All other models have fixed power cables, colour coded to European standards:
  Green/Yellow = Earth Blue=Neutral Brown= Live
- The A5000, A6000 and Q900 have 2 power cables.
- The live connector in certain 115V models is coloured RED.
- The amplifier must be connected to a 3-pin grounded outlet via a 3-pin connector of sufficient voltage and current rating. If the connector has provision for a fuse, a suitable fuse must be fitted.

Mains supply

- The power rating of the supply should be at least twice the total audio output of the system.
- VOLTAGE SELECTION: Your amplifier is factory set to your local supply voltage and should be changed only by an authorised Chevin dealer.
- ELECTRIC SHOCK/FIRE HAZARD: The unit must be connected to an adequately rated grounded outlet. All related cables, connectors and switch gear must be sufficiently rated to avoid risk of overheating and fire.

Power (continued)

Three phase systems

- IMPORTANT: The neutral current will not balance on three-phase systems.
- Use individual neutral connections from each phase outlet back to the distribution point.
- Alternatively, ensure the neutral conductor is of sufficient capacity to handle a return current equal to the sum total of the current in the three phases.

Inputs

- XLR connectors are used on all amplifier inputs except for Line250 and Line500 models.
- Do not directly connect any channel to more than one signal source, these are **not** mixing amplifiers.
- All inputs are electronically balanced and can accept signals from balanced and unbalanced sources. Maintain the same phase polarity on all equipment in the signal chain.

Inputs from balanced sources

Use shielded cable with XLR connectors at both ends (except Line250 and Line500):

- Ground/screen: Connect cable braid to XLR pin 1.
- HOT (+) signal: XLR pin 2
- COLD (–) signal: XLR pin 3

Inputs from unbalanced sources

Use shielded cable with an XLR connector at the amplifier end (except Line250 and Line500) and either a jack plug, phono plug or XLR connector, as appropriate:

- Ground/screen and COLD (–): At the source end, connect the COLD signal wire and cable braid to the sleeve of jack plug or phono connector, or pin 1 of an XLR connector (if used).
- At the source end of the cable, connect the HOT (+) signal to the tip of the jack plug, the pin of the phono plug or pin 2 of an XLR connector (if used).
- Connect the XLR at the amplifier end as per 'Inputs from balanced sources' above.

Inputs to Line250 and Line500 models

The Line250 and Line500 models use block connectors at the rear panel. Use connections at the source end as explained above for balanced or unbalanced sources. At the amplifier end, make wire connections rather than using an XLR connector.

Mono bridging

Various models can have their channels bridged together (except A700v, A5000, A6000, QB1000/600, Line250 or Line500). For details about the necessary wiring, see page 6.

Speakon is a registered trademark of Neutrik AG
XLR is a registered trademark of ITT Cannon Ltd.

Outputs

Connections are made to the amplifier load using Neutrik Speakon sockets (except for Line250 and Line500 models). As with input connectors, maintain phase polarity throughout the system.

IMPORTANT: High voltages are present at output terminals during operation and for a period afterwards. Do not connect the amplifier to any other amplifier output or to any equipment other than a speaker system.

Take great care to note the wiring specifications particular to your amplifier model:

A700v

One Speakon socket per channel, wired as follows:

1+ = HOT **2+** = NO CONNECTION
1– = COLD (not Ground) **2–** = NO CONNECTION

WARNING: The A700v output is permanently connected in bridge mode. Both hot and cold outputs carry high level signal. Further bridging is impossible. No terminal of the speaker socket is connected to ground. Do not connect any part of the speaker system to ground.

A500 • A750 • A1000 • A1004 • A1500 • A2000 • A3000 • A4000 • A5003 • Q900

Two parallel-connected Speakon sockets (A500: one socket) per channel, wired as follows:

1+ = HOT **2+** = NO CONNECTION
1– = GROUND **2–** = GROUND

A5000 • A6000

Two parallel-connected Speakon sockets per channel, wired as follows:

1+ = HOT **2+** = NO CONNECTION
1– = COLD (not Ground) **2–** = COLD (not Ground)

WARNING: The A5000 / A6000 outputs are permanently connected in bridge mode. Both hot and cold outputs carry high level signal. Further bridging is impossible. Do not connect any part of the A5000 or A6000 outputs to ground. Take care when using loudspeaker controllers or processors.

Q6 • Q1004

One Speakon socket per channel, parallel connected in channel pairs: A & B, C & D.
Each socket in the pair carries the output of both channels, wired as follows:

Channel A & B sockets:
1+ = HOT A **2+** = HOT B
1– = GROUND **2–** = GROUND

Channel C & D sockets:
1+ = HOT C **2+** = HOT D
1– = GROUND **2–** = GROUND

QB1000/600

One Speakon socket per channel, parallel connected in pairs: A & B, C & D.
Each socket in the pair carries the output of both channels, wired as follows:

Channel A & B sockets:
1+ = HOT B 1000W **2+** = HOT A 600W
1– = GROUND **2–** = GROUND

Channel C & D sockets:
1+ = HOT C 1000W **2+** = HOT D 600W
1– = GROUND **2–** = GROUND

Line250 • Line500

Connect load to output connector blocks using the 0v terminal and either the 70v or 100v HOT terminals, as appropriate to the system.

Speaker power ratings

Suggested speaker ratings per amplifier channel, in watts.

Model		16Ω	8Ω	4Ω	2Ω
A500		115	230	460	–
A700v		450	900	–	–
A750		160	300	600	–
A1000 • Q6		230	450	900	–
A1004 • Q1004		400	750	1500	–
A1500		500	1000	1900	–
QB1000/600	*A&D*	230	450	900	–
	B&C	400	750	1500	–
A2000		230	500	1000	1800
A3000		350	650	1300	2300
A4000		450	800	1500	3000
A5000 • A5003		500	1000	2000	3600
A6000		800	1200	2600	4500
Q900		350	650	1300	2300

Speaker impedances

Correct loadings for all models are shown here. Multiple speakers are connected in parallel.

A700v

WARNING: Do not use a system with a total impedance less than 8Ω.

The A700v can be used to drive a 70 volt distribution system (maximum loading 600W) or a 100 volt line system at a reduced output. Note: Do not connect a transformer between the A700v output and distribution system. Where line transformers are used to match speakers to the distribution system, adjust to suit the characteristics of the speaker.

A500 • A750 • A1000 • A1004 • A1500 • Q6 • Q1004 • QB1000/600 (per channel)

WARNING: Do not use a system with a total impedance per channel less than 4Ω.

4 or less speakers of 16Ω *OR* 2 or less speakers of 8Ω *OR* 1 speaker of 4Ω

A2000 • A3000 • A4000 • A5000 • A5003 • A6000 • Q900 (per channel)

WARNING: Do not use a system with a total impedance per channel less than 2Ω.

8 or less speakers of 16Ω *OR* 4 or less speakers of 8Ω *OR* 2 or less speakers of 4Ω *OR* 1 speaker of 2Ω

Note: The A5000 and A6000 models both incorporate an adjustable output limiting control, concealed behind the front panel. Consult an authorised Chevin dealer to enable this feature.

Mono bridge mode

WARNING: You cannot bridge the A700v, A5000, A6000, QB1000/600, Line250 or Line500.

Inputs

A500

1 Make a lead from the source with two XLR plugs at the amplifier end.

2 HOT output from the source goes to pin 2 of Channel A XLR and pin 3 of Channel B XLR.

3 COLD output from the source goes to pin 3 of Channel A XLR and pin 2 of Channel B XLR.

4 The cable screen goes to pin 1 of both XLR plugs.

Q6 • Q1004

1 Make two leads, one for each source channel. Each lead needs 2 XLR plugs at the amplifier end.

2 In each lead, HOT output from the source goes to pin 2 of the first XLR & pin 3 of the second XLR.

3 In each lead, COLD output from the source goes to pin 3 of first XLR & pin 2 of second XLR.

4 The cable screen goes to pin 1 of both XLR plugs.

5 In each lead, first XLR goes to INPUT A (INPUT C) and second XLR goes to INPUT B (INPUT D).

A750 • A1000 • A1004 • A1500 • A2000 • A3000 • A4000 • A5003 • Q900

1 Bring the input signal into channel A as usual.

2 Make a lead with an inline XLR socket to go to the Channel A LINK connector and an XLR plug to go to the Channel B INPUT socket.

3 Connect socket pin 2 to plug pin 3 and similarly, socket pin 3 to plug pin 2.

Q900: Make a second lead as above for channels C & D.

Outputs

A500 • A750 • A1000 • A1004 • A1500 • A2000 • A3000 • A4000 • A5003 • Q900

1 Split the speaker cable by separating the two conductors for a distance of 20cm along cable.

2 Connect the red conductor to terminal 1+ of the Channel A Speakon connector.

3 Connect the black connector to terminal 1+ of the Channel B Speakon connector.

Do not make connections to any other terminals. **Q900**: Repeat the above for channels C & D.

Q6 • Q1004

1 Connect the red conductor of the speaker cable to terminal 1+ of channel A (C) Speakon conn.

2 Connect the black conductor of the speaker cable to terminal 2+ of channel B (D) Speakon conn.

WARNING: Do not make connections to terminals 1– or 2–.

Operation

Set the gain controls of both channels in the same position (preferably at maximum), and control the gain from elsewhere in the system. This ensures the load is shared equally between channels.

Loading and power output

Please see the rear page for mono bridge loading and power output values.

Operation & Servicing

Switching on

1 Turn the gain controls to the minimum positions.

2 Connect the unit to a mains supply of sufficient power and click the front panel switch(es) to the ON position. Depending on the internal temperature, the fans may run.

- The green *Power* indicators will illuminate.
- The red *Clip* indicators will illuminate if overdriving is imminent.

WARNING: Keep sound levels down. High levels of sound can damage hearing.

Switching off

- Turn the gain control(s) to the minimum position(s). Click the front panel switch(es) to the OFF position and disconnect from the mains supply.

WARNING: High voltages are present at output terminals for a period after switching off.

Protection systems

- Mains power supply failure: When power is restored, the amp will AutoMute for five seconds. Do not increase gain settings during this period. Note: A500, A700v, Line250 and Line500 do not AutoMute.
- Shorted output: The unit can operate indefinitely into a shorted output. Normal operation will resume upon removal of the short circuit.
- Low load impedance: Protection is immediate.
- Clipping: The affected channel's red Clip indicator will illuminate shortly before clipping. A further increase in signal level will activate the SoftClip circuit.
- RF, DC or very low frequency signal at output: A self resetting circuit will activate to protect the load.
- Cooling systems: The internal fans react to both high signal level and temperature inside the unit. If the ambient temperature is high, fan speed will increase even in the absence of a signal.

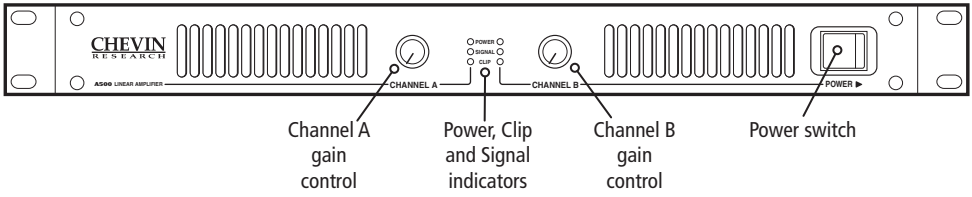
Servicing

WARNING: All servicing and internal maintenance must be referred to an authorised Chevin dealer. Chevin Research accepts no responsibility or liability relating to injury or damages suffered as a result of misuse or unauthorised tampering with amplifiers.

- Do not remove any covers or touch any internal parts. Do not allow any objects (e.g. screwdrivers, cable ends, etc.) to enter the unit.
- If the unit of any other electrical equipment in the system becomes wet during operation, disconnect the power source immediately. Do not touch the amplifier. Consult a qualified engineer.
- If there are any signs of mechanical damage, disconnect the power source and consult a qualified engineer.

A500

SEE PAGE 6 FOR OPERATION DETAILS • **FRONT PANEL**



Channel A gain control

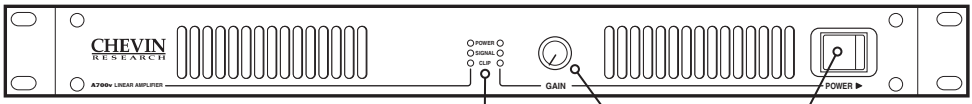
Power, Clip and Signal indicators

Channel B gain control

Power switch

A700v

SEE PAGE 6 FOR OPERATION DETAILS • **FRONT PANEL**



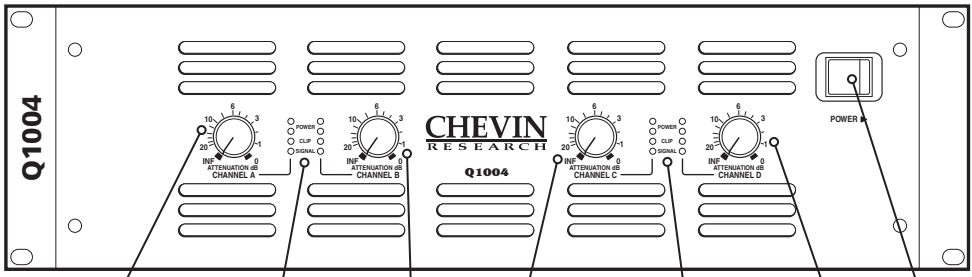
Power, Clip and Signal indicators

Gain control

Power switch

Q1004 • QB1000/600

SEE PAGE 6 FOR OPERATION DETAILS • **FRONT PANELS**



Channel A gain control

Power, Clip and Signal indicators

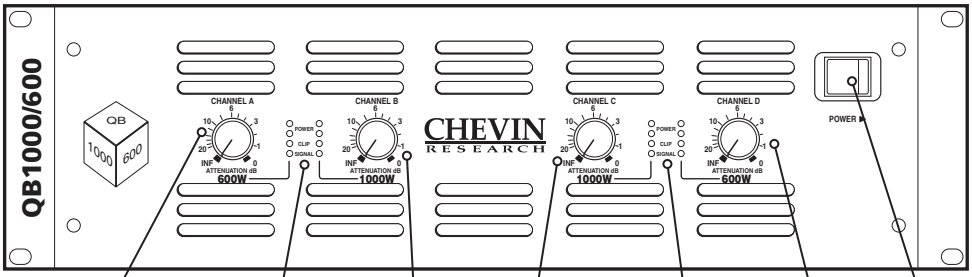
Channel B gain control

Channel C gain control

Power, Clip and Signal indicators

Channel D gain control

Power switch



600W (Channel A) gain control

Power, Clip and Signal indicators

1000W (Channel B) gain control

1000W (Channel C) gain control

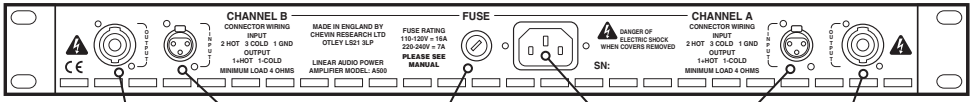
Power, Clip and Signal indicators

600W (Channel D) gain control

Power switch

A500

SEE PAGE 3 FOR INPUT WIRING • SEE PAGES 4 & 5 FOR OUTPUT WIRING • **REAR PANEL**



Channel B Output connector

Channel B Input connector

Fuse

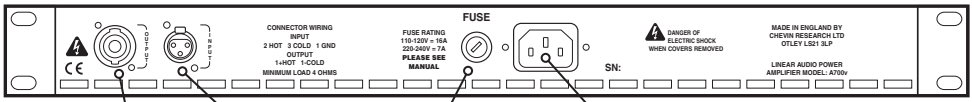
Mains input

Channel A Input connector

Channel A Output connector

A700v

SEE PAGE 3 FOR INPUT WIRING • SEE PAGES 4 & 5 FOR OUTPUT WIRING • **REAR PANEL**



Output connector

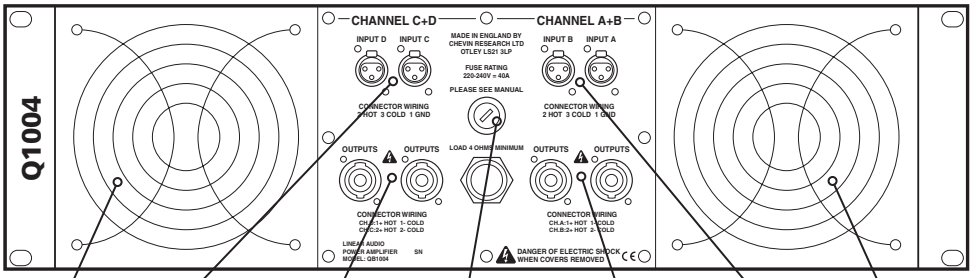
Input connector

Fuse

Mains input

Q1004 • QB1000/600

SEE PAGE 3 FOR INPUT WIRING • SEE PAGES 4 & 5 FOR OUTPUT WIRING • **REAR PANELS**



Vari speed cooling fan

Channel C & D input XLR sockets

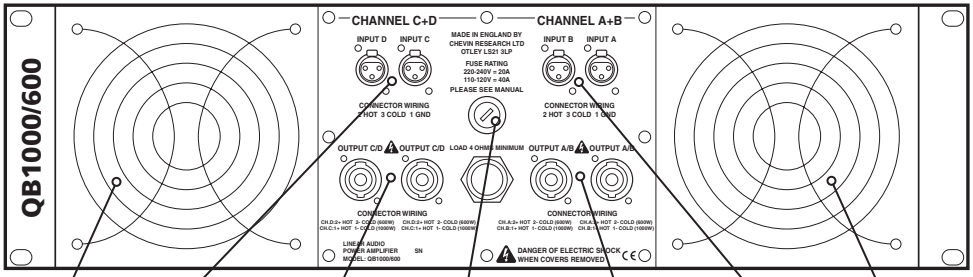
Channel C & D output Speakon sockets (1 per ch)

Fuse

Channel A & B output Speakon sockets (1 per ch)

Channel A & B input XLR sockets

Vari speed cooling fan



Vari speed cooling fan

Channel C & D input XLR sockets

Channel C & D dual output Speakon sockets

Fuse

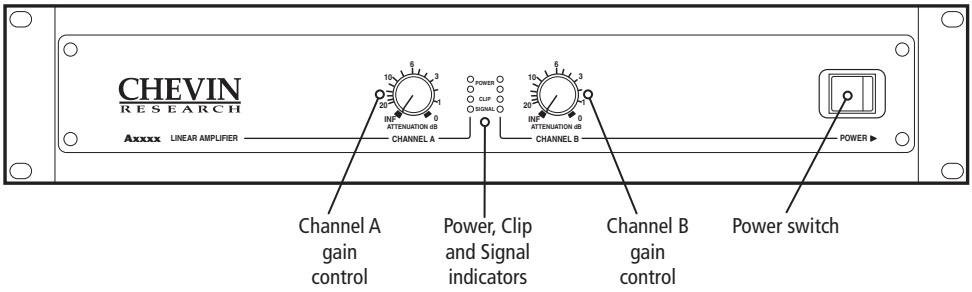
Channel A & B dual output Speakon sockets

Channel A & B input XLR sockets

Vari speed cooling fan

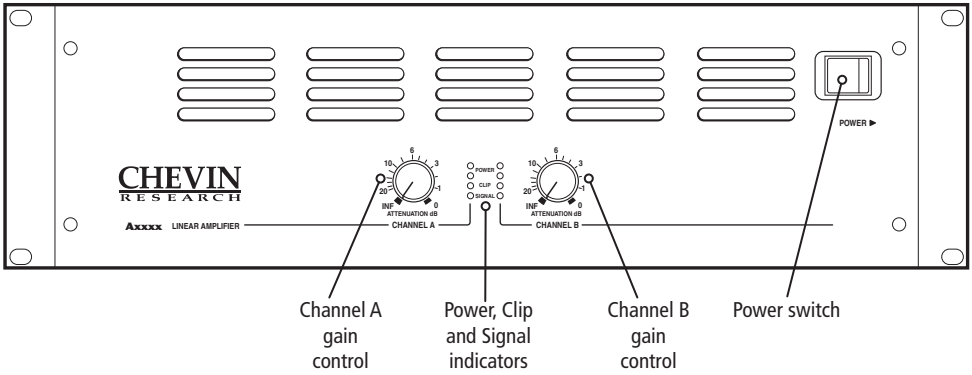
A750 • A1000 • A1004 • A1500 • A2000 • A3000

SEE PAGE 6 • **FRONT PANEL**



A4000 • A5003

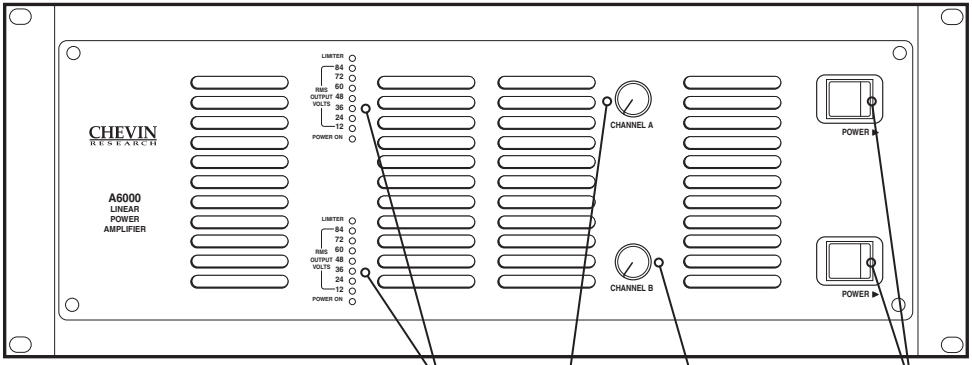
SEE PAGE 6 FOR OPERATION DETAILS • **FRONT PANEL**



A5000 • A6000

SEE PAGE 6 FOR OPERATION DETAILS • **FRONT PANEL**

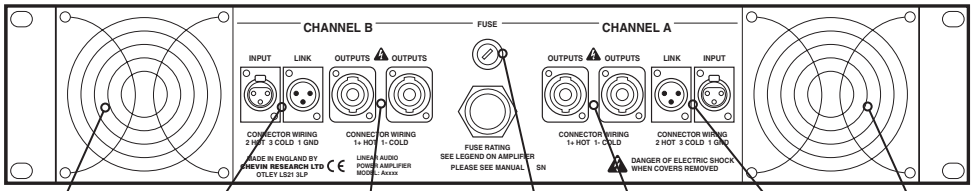
Model shown is A6000. Signal indicator values are different for A5000.



The Limiter indicator lights when amp is being driven into clip and shows SoftClip system is active. If clip threshold is exceeded, the intensity of this LED gives an indication of the degree of overdrive.

A750 • A1000 • A1004 • A1500 • A2000 • A3000

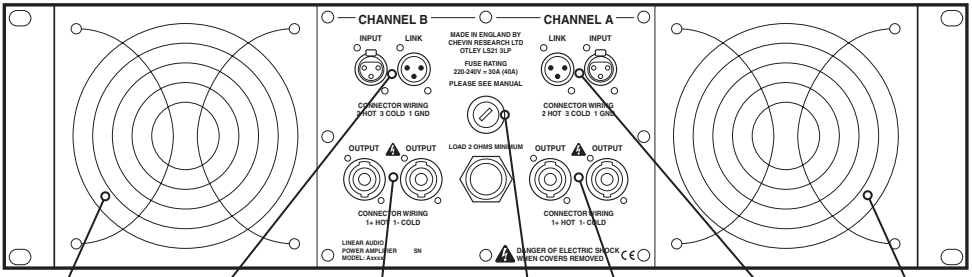
SEE PAGES 3, 4 & 5 • **REAR PANEL**



Vari speed cooling fan | Channel B input and link connectors | Channel B dual output connectors | Fuse | Channel A dual output connectors | Channel A input and link connectors | Vari speed cooling fan

A4000 • A5003

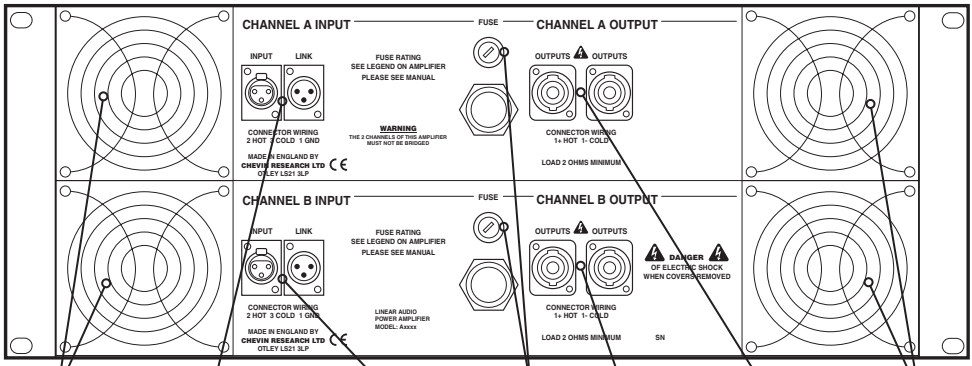
SEE PAGE 3 FOR INPUT WIRING • SEE PAGES 4 & 5 FOR OUTPUT WIRING • **REAR PANEL**



Vari speed cooling fan | Channel B input and link connectors | Channel B dual output connectors | Fuse | Channel A dual output connectors | Channel A input and link connectors | Vari speed cooling fan

A5000 • A6000

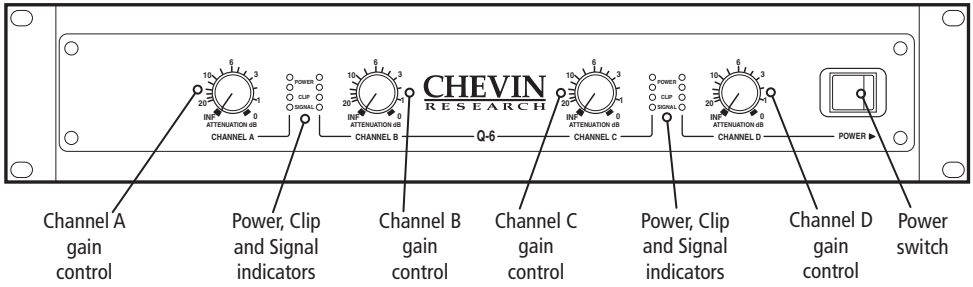
SEE PAGE 3 FOR INPUT WIRING • SEE PAGES 4 & 5 FOR OUTPUT WIRING • **REAR PANEL**



Vari speed cooling fans | Channel A input and link connectors | Channel B input and link connectors | Fuses | Channel B dual output connectors | Channel A dual output connectors | Vari speed cooling fans

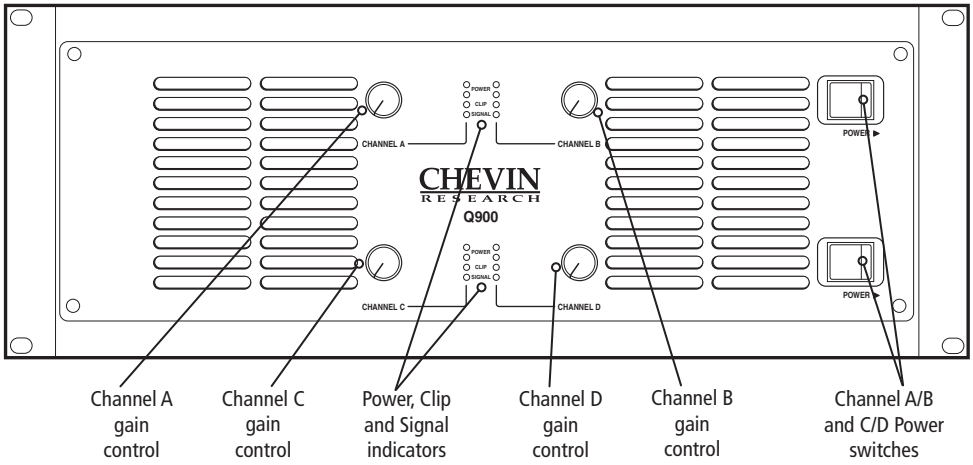
Q6

SEE PAGE 6 FOR OPERATION DETAILS • **FRONT PANEL**



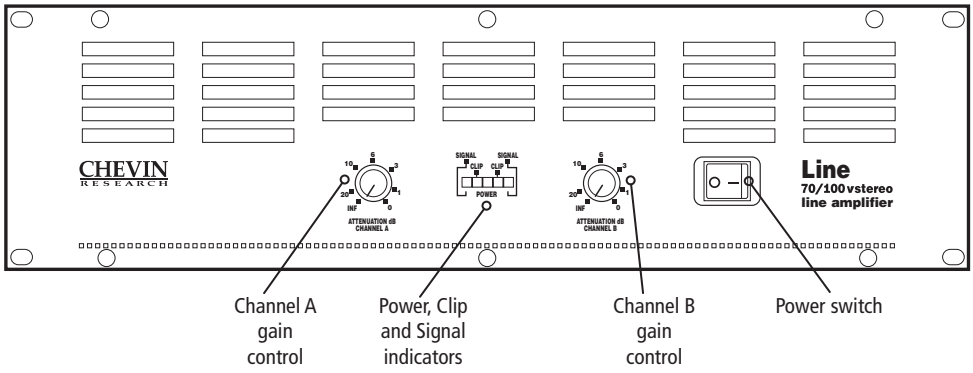
Q900

SEE PAGE 6 FOR OPERATION DETAILS • **FRONT PANEL**



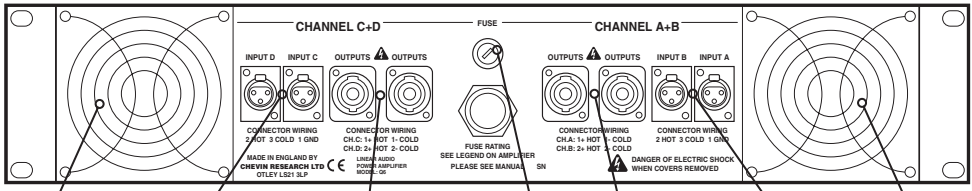
Line250 • Line500

SEE PAGE 6 FOR OPERATION DETAILS • **FRONT PANEL**



Q6

SEE PAGE 3 FOR INPUT WIRING • SEE PAGES 4 & 5 FOR OUTPUT WIRING • **REAR PANEL**



Vari speed cooling fan

Channel C & D input connectors

Channel C+D dual output connectors

Fuse

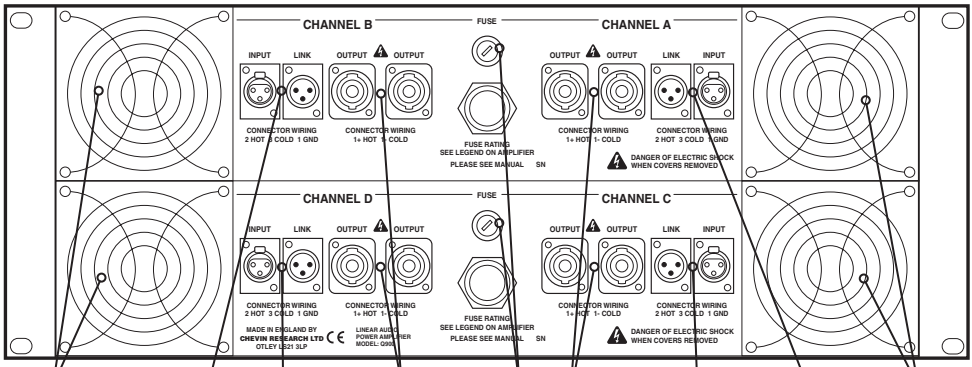
Channel A+B dual output connectors

Channel A & B input connectors

Vari speed cooling fan

Q900

SEE PAGE 3 FOR INPUT WIRING • SEE PAGES 4 & 5 FOR OUTPUT WIRING • **REAR PANEL**



Vari speed cooling fans

Channel B input & link connectors

Channel D input & link connectors

Channel B & channel D dual output connectors

Fuses

Channel A & channel C dual output connectors

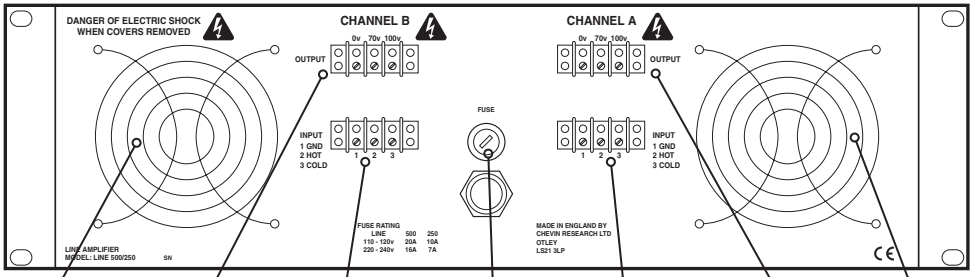
Channel C input & link connectors

Channel A input & link connectors

Vari speed cooling fans

Line250 • Line500

SEE PAGE 3 FOR INPUT WIRING • SEE PAGES 4 & 5 FOR OUTPUT WIRING • **REAR PANEL**



Vari speed cooling fan

Channel B output connector block

Channel B input connector block

Fuse

Channel A input connector block

Channel A output connector block

Vari speed cooling fan

General specifications	A500	A700v	A750	A1000	A1004	A1500	Q6	Q1004	QB1000/600
RMS power output									
into 4Ω (per chan.)	350W	n/a	425W	600W	1000W	1250W	600W	1000W	2x1000W/2x600W
into 8Ω (per chan.)	200W	600W	250W	350W	600W	650W	350W	600W	2x600W/2x350W
No. of channels	2	1	2	2	2	2	4	4	4
Power bandwidth +0dB, -3dB	2Hz - 40kHz	2Hz - 40kHz	2Hz - 80kHz	2Hz - 80kHz	2Hz - 80kHz	2Hz - 80kHz	2Hz - 80kHz	2Hz - 80kHz	2Hz - 80kHz
Slew rate in excess of	40V/µS	40V/µS	75V/µS	75V/µS	75V/µS	60V/µS	75V/µS	75V/µS	75V/µS
Gain	x37.5	x70	x40	x50	x65	x70	x50	x65	x65 / x50
Total harmonic distortion									
typical @ 1dB below clip	0.06%	0.06%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
20kHz @ 1dB below clip	0.08%	0.08%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%
Signal to noise ratio									
typ. ref. full output, unweighted	-120dB	-120dB	125dB	-125dB	-125dB	-125dB	-125dB	-125dB	-125dB
Worst case 10Hz - 30kHz	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB
Crosstalk									
typical	-115dB	n/a	-115dB	-115dB	-115dB	-115dB	-115dB	-115dB	-115dB
worst case 10Hz - 30kHz	-95dB	n/a	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB
Damping factor	400	400	400	400	400	400	400	400	400
Input impedance									
electronically balanced	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ
Common mode rejection (typ.)	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB
Input sensitivity									
ref. full output into 4Ω	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS
Protection									
clipping	soft	soft	soft	soft	soft	soft	soft	soft	soft
load below 2.4Ω	dynamic linear	dynamic linear	dynamic linear	dynamic linear	dynamic linear	dynamic linear	dynamic linear	dynamic linear	dynamic linear
shorted output, DC or RF at output	immediate	immediate	immediate	immediate	immediate	immediate	immediate	immediate	immediate
Power consumption	1.2kVA	1.2kVA	1.5kVA	2kVA	3.3kVA	4kVA	4kVA	6.6kVA	5.2kVA
50/60Hz AC in volts	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V
internally selectable for	100-120V	100-120V	100-120V	100-120V	100-120V	100-120V	100-120V	n/a	100-120V
Dimensions/weight									
rack units	1U	1U	2U	2U	2U	2U	2U	3U	3U
height x width x depth (inches)	1.75x19x8.5	1.75x19x8.5	3.5x19x15	3.5x19x15	3.5x19x15	3.5x19x15	3.5x19x15	5.25x19x15	5.25x19x15
height x width x depth (mm)	44x483x215	44x483x215	88x483x381	88x483x381	88x483x381	88x483x381	88x483x381	132x483x381	132x483x381
gross weight	5.2kg/11.5lbs	5.1kg/11.2lbs	10kg/22lbs	10kg/22lbs	13.3kg/29lbs	14kg/31lbs	14kg/30.9lbs	16kg/34lbs	20kg/44lbs
net weight	4.7kg/9lbs	4kg/8.8lbs	8.4kg/18.5lbs	8.5kg/19lbs	11.7kg/26lbs	12.4kg/27lbs	12.3kg/27lbs	14kg/29.6lbs	18kg/40.5lbs

General specifications	Q900	A2000	A3000	A4000	A5000	A5003	A6000	Line250	Line500
RMS power output (10Hz-20kHz)									
into 2Ω (per chan.)	1600W	1200W	1600W	2000W	2500W	2500W	3000W	Line operation:	Line operation:
into 4Ω (per chan.)	900W	650W	900W	1000W	1500W	1500W	2000W	70V 100V	70V 100V
into 8Ω (per chan.)	500W	350W	500W	600W	900W	900W	1200W	175W 250W	350W 500W
No. of channels	4	2	2	2	2	2	2	2	2
Power bandwidth +0dB, -3dB	2Hz - 80kHz	2Hz - 80kHz	2Hz - 80kHz	2Hz - 80kHz	2Hz - 50kHz	2Hz - 80kHz	2Hz - 50kHz	30Hz - 16kHz	30Hz - 16kHz
Slew rate in excess of	50V/µS	75V/µS	50V/µS	65V/µS	50V/µS	65V/µS	50V/µS	40V/µS	40V/µS
Gain	x60	x50	x60	x65	x70	x70	x90	n/a	n/a
Total harmonic distortion									
typical @ 1dB below clip	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
20kHz @ 1dB below clip	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	0.07%	n/a	n/a
Signal to noise ratio									
typ. ref. full output, unweighted	-125dB	-125dB	-125dB	-125dB	-125dB	-125dB	-125dB	-120dB	-120dB
Worst case 10Hz - 30kHz	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB
Crosstalk									
typical	-115dB	-115dB	-115dB	-115dB	-115dB	-115dB	-115dB	-115dB	-115dB
worst case 10Hz - 30kHz	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB	-95dB
Damping factor	400	400	400	400	400	400	400	n/a	n/a
Input imped. electronically balanced	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ	10kΩ
Common mode rejection (typ.)	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB
Input sensitivity									
ref. full output into 4Ω	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS	1V RMS
Protection									
clipping	soft	soft	soft	soft	soft	soft	soft	soft	soft
load below 1.2Ω	dynamic linear	dynamic linear	dynamic linear	dynamic linear	dynamic linear	dynamic linear	dynamic linear	n/a	n/a
shorted output, DC or RF at output	immediate	immediate	immediate	immediate	immediate	immediate	immediate	immediate	immediate
Power consumption	5.3kVA per pair	3.9kVA	5.3kVA	6.6kVA	4kVA per chan.	8kVA	5.3kVA per chan.	1kVA	1.6kVA
50/60Hz AC in volts	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V
internally selectable for	100-120V	100-120V	100-120V	n/a	100-120V	n/a	100-120V	100-120V	100-120V
Dimensions/weight									
rack units	4U	2U	2U	3U	4U	3U	4U	3U	3U
height x width x depth (inches)	7x19x15	3.5x19x15	3.5x19x15	5.25x19x15	7x19x15	5.25x19x15	7x19x15	5.25x19x15	5.25x19x15
height x width x depth (mm)	178x483x381	88x483x381	88x483x381	132x483x381	178x483x381	132x483x381	178x483x381	132x483x381	132x483x381
gross weight	23.5kg/59lbs	13.3kg/29lbs	14kg/31lbs	16kg/34lbs	23.5kg/59lbs	16kg/34lbs	23.5kg/59lbs	18kg/40lbs	22kg/50lbs
net weight	21.5kg/47.4lbs	11.7kg/26lbs	12.4kg/27lbs	14kg/29.6lbs	21.5kg/47.4lbs	14kg/29.6lbs	21.5kg/47.4lbs	16kg/36lbs	20kg/45lbs

Mono bridge loading and power outputs (see page 6 for details)

Model	Minimum load	Power output
A500	1 load of 8Ω	650W
A750	1 load of 8Ω	850W
A1000	1 load of 8Ω	1200W
A1004	1 load of 8Ω	2000W
A1500	1 load of 8Ω	2500W
A2000	1 load of 4Ω	2400W
A3000	1 load of 4Ω	3000W
A4000	1 load of 4Ω	4000W
A5003	1 load of 4Ω	5000W
Q900	1 load of 4Ω per channel pair	3000W per channel pair
Q6	1 load of 8Ω per channel pair	1200W per channel pair
Q1004	1 load of 8Ω per channel pair	2000W per channel pair

Warranty

This precision engineered CHEVIN product is guaranteed against defects due to faulty materials and workmanship for a period of twenty four (24) months from the date of the original purchase, subject to the following restrictions:

- This warranty is only valid in the country of purchase
- The equipment has not been abused or operated in conjunction with unsuitable or faulty apparatus. The equipment has not been disassembled, modified or tampered with by any person other than our CHEVIN staff or overseas by our own or distributors' staff.
- The equipment has not suffered damage in transit.

Should service be required, notify the dealer from whom you purchased the equipment to arrange for an authorised CHEVIN agent to confirm the need for attention.

- Do not dispatch the goods without the prior approval of CHEVIN or its authorised agents. If asked to return the goods, pack them carefully (preferably in the original carton) and return pre-paid. Insurance is recommended as goods are returned at owner's risk.
- Packing insurance and freight on the return journey will be paid for by CHEVIN or its authorised agents only if warranty work proves necessary. If warranty work proves unnecessary, goods will be released upon payment by the owner for charges for non-warranty repair work and return packing, insurance and freight.
- The attached warranty card should be completed and returned to CHEVIN RESEARCH LTD.
- Failure to register by not returning the warranty card in no way limits or invalidates the warranty, but in the event of service being required, delay may result since warranty work cannot begin until the original sale has been verified.
- In case of difficulty, contact CHEVIN RESEARCH LTD. This warranty in no way affects your statutory rights.

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