

CT ACTIVE

POWERED SPEAKERS

Order ref: 170.254, 170.257, 170.260, 170.263, 170.266

User Manual



Introduction

Thank you for choosing the Citronic CT-series active speakers as part of your sound reinforcement system. These high output cabinets are designed to offer high quality, dependable service for mobile and installed systems. Please read this manual fully and follow the instructions to achieve the best results with your new purchase and to avoid damage through misuse.

Warning

To prevent the risk of fire or electric shock, do not expose any of the components to rain or moisture.

If liquids are spilled on the casing, stop using immediately, allow unit to dry out and have checked by qualified personnel before further use. Avoid impact or extreme pressure to the case

No user serviceable parts inside – Do not open the case – refer all servicing to qualified service personnel.

Safety

- Check for correct mains voltage and condition of IEC lead before connecting to power outlet
- Ensure signal leads are good condition with no short connections or damaged plugs

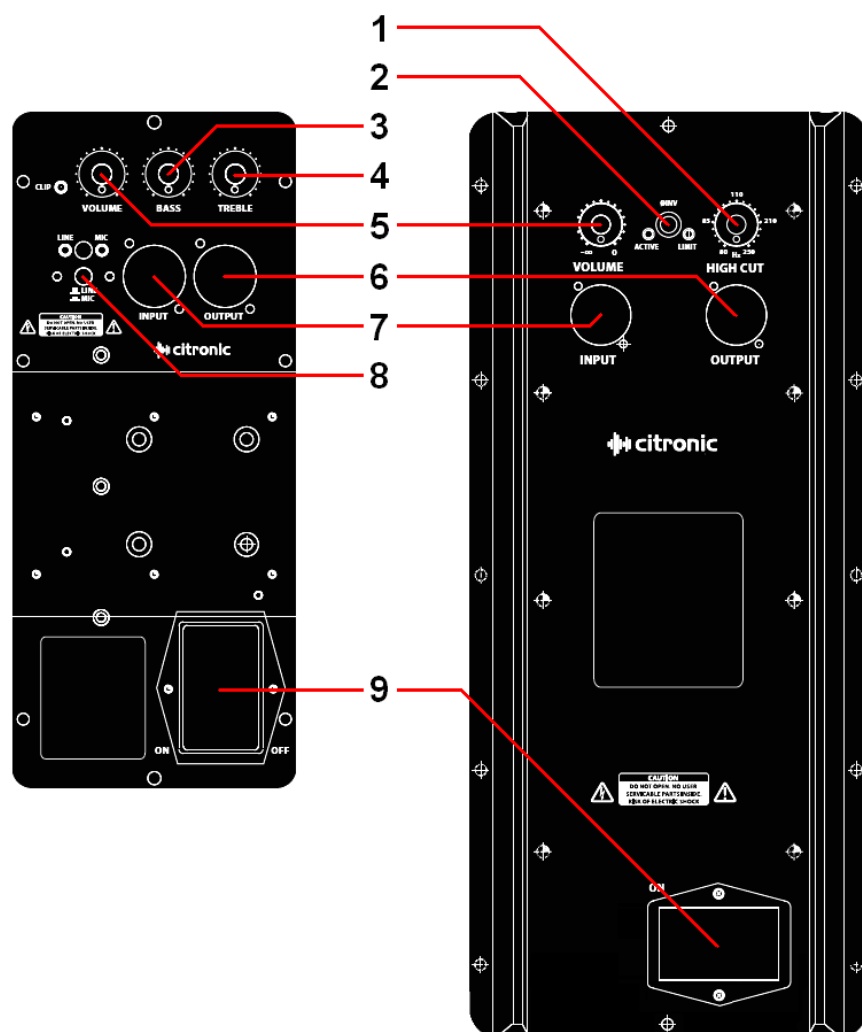
Placement

- Position on a stable surface or pole mount stand. If suspended by flying points, ensure fixings are adequate for the weight load.
- Keep away from heat sources and away from damp or dusty environments
- Ensure adequate access to controls and connections

Cleaning

- Use a soft dry or slightly damp to clean the cabinet as required
- Do not use strong solvents for cleaning the unit

Amplifier Panel



- 1. HI CUT control (170.266 only)**
Adjusts cutoff frequency of sub filter
- 2. INV switch (170.266 only)**
Polarity invert function
- 3. BASS control (not 170.266)**
Adjusts low frequency level
- 4. TREBLE control (not 170.266)**
Adjusts high frequency level
- 5. VOLUME control**
Adjusts overall output level
- 6. OUTPUT XLR**
Signal output (balanced)
- 7. INPUT XLR**
Signal input (balanced)
- 8. MIC/LINE switch (not 170.266)**
Selects Mic or Line level for input
- 9. MAINS inlet and power switch**
Combined IEC inlet, fuse holder and power switch

Connection

Connect line level signal from sound source to the INPUT XLR, ensuring that the MIC/LINE switch is in the out position (LINE).

Alternatively, a microphone can be connected to the INPUT XLR and the MIC/LINE switch should be pressed in (MIC - note: not available on 170.266)

Connect the OUTPUT XLR to any further active speakers that are to be fed the same signal.

Connect the supplied mains cable from the IEC connector to a suitable mains outlet, ensuring correct voltage and adequate current capacity.

Operation

CT8A, CT10A, CT12A, CT15A (170.254, 170.157, 170.260, 170.263)

With VOLUME control turned fully down, switch on the power switch.

Ensure a signal is playing to the input and gradually increase the VOLUME control to the required output level.

BASS and TREBLE controls may be adjusted to the desired tonal response.

Bear in mind that the combined adjustment of these may affect the output level and VOLUME settings may need to be adjusted to compensate.

The red CLIP LED will illuminate if the output is reaching clip level.

If the red CLIP LED illuminates more than very briefly, reduce the volume until it illuminates only briefly on loud peaks in the sound.

Before powering down, turn the channel gain controls fully down to avoid loud noises when switching off.

CT15SA (170.266)

With VOLUME control turned fully down, switch on the power switch.

Ensure a signal is playing to the input and gradually increase the VOLUME control to the required output level.

Adjusting the HIGH CUT control varies the cutoff frequency of the high cut filter.

Lower settings allow only the lowest frequencies to be output and higher settings allow more low-mid frequencies to be introduced into the signal.

The INV switch reverses polarity when pressed in, which may help to avoid low frequency feedback or phase align 2 subs facing toward each other.

The correct setting for this switch is whichever produces the best output or lowest feedback and is subject to trial and error.

ACTIVE LED shows that a signal is present and LIMIT indicates that the internal clip limiter is operating.

If the LIMIT LED lights persistently, the VOLUME setting may need to be turned down.

Before powering down, turn the channel gain controls fully down to avoid loud noises when switching off.

Specifications

Model	CT8A	CT10A	CT12A	CT15A	CT15SA
Power supply	230Vac, 50Hz				
Top hat	Base mounted 35mmØ				Top mount 35mmØ
Horn Driver	Titanium compression				N/A
Connector	XLRf input, XLRm output				
Sensitivity	775mV				
System	2-way full range				Sub woofer
THD	<0.04%				
Woofer	20cm (8")	25cm (10")	30cm (12")	38cm (15")	38cm (15")
Tweeter	2.5cm (1")	2.5cm (1")	4.4cm (1.75")	4.4cm (1.75")	N/A
Power rms	100W + 50W	100W + 50W	300W + 100W	300W + 100W	400W
Dispersion	90 x 60°	90 x 60°	50/100 x 55°	50/100 x 55°	N/A
Flying Points	6 x M6	6 x M6, 4 x M8	10 x M8	10 x M8	10 x M8
Frequency response : -3dB	65Hz - 18kHz	55Hz - 18kHz	50Hz - 18kHz	40Hz - 18kHz	40Hz - 250Hz
Frequency response : -10dB	60Hz - 20kHz	50Hz - 20kHz	40Hz - 20kHz	35Hz - 20kHz	35Hz - 250Hz
Max. SPL	116dB	116dB	118dB	120dB	120dB
Dimensions	405 x 275 x 265mm	464 x 321 x 321mm	620 x 415 x 391mm	700 x 485 x 460mm	700 x 485 x 460mm
Weight	8.6kg	10.5kg	23kg	30.5kg	30.5kg

Troubleshooting

No power light on rear panel switch	Ensure IEC inlet is connected to mains and mains lead is in good condition
	Ensure mains outlet is switched on
	Check mains fuse. If repeatedly blowing, refer to qualified service personnel
Power light is on but no other LEDs and no output	Check input signal and connection leads
	Ensure VOLUME, BASS and TREBLE controls are not turned fully down
Output very distorted and CLIP or LIMIT LED is lighting	Turn down the input level from audio source
	If line input, ensure MIC/LINE switch is not pressed in
	Turn down VOLUME, BASS and/or TREBLE controls
Output is working but at very low level	Ensure input source is at line level
	If microphone input, ensure MIC/LINE switch is pressed in
	Increase input level from audio source
	Turn up VOLUME, TREBLE and/or BASS controls