

AMM CHBT „CHORDERBEAT“

SYNTHESIZER EXTENSION

CUSTOMER INFORMATION

CONGRATULATIONS!

Congrats on your ALTMANN CHORDERBEAT, the indispensable enabler for your analogue synthesizers. The CHBT was developed with Moog® Synthesizers in mind (i.e. Grandmother, Little-Phatty, Subsequent, etc.) however can also be used with many standard Synthesizers of other manufacturers or modular Synths. The ALTMANN CHORDERBEAT comes in a compact, rugged, wearable/mountable package with gold-plated front which holds all operational controls and I/Os. Optional accessories (chained-plug, knobs, velcro, etc.) available upon request.

MIDI-INTERFACE AND POWER

CHBT receives 12V DC into its power jack and listens to MIDI channel 1 through its 5-pole MIDI input jack. A red status LED communicates power and MIDI command status.

SEVEN-NOTE POLYPHONY

The Chorderbeat's WAVE output offers 7-note polyphonic square-wave output, which is fine-tuneable, pitch-wheel controlled (via MIDI) and also features AMM's proprietary WARBLE-mode. The WAVE output is typically connected to Filter- or External-Input of your Synthesizer. The 7 internal squarewave oscillators operate with 32-bit resolution and crystal-controlled precision.

VOLUME-CONTROL AND DISTORTION

The AC-coupled WAVE output's level and distortion is controllable via a volume potentiometer. The first half of the pot range controls volume (level) from zero to app. 9Vpp, the second half of the pot range gradually introduces distortion to the output while maintaining the max output level of 9V peak to peak.

PITCHWHEEL FUNCTION

MIDI pitchwheel commands are received by the CHBT and processed to simultaneously modulate the pitch of the 7 internal squarewave oscillators. The pitchwheel amount can be selected between +2/-2 and +2/-12 semi-notes by using the associated DIP-switch.

OCTAVE SELECT

The Chorderbeat's WAVE-output frequency ranges from app. 2Hz to above 8kHz (16kHz in DECIMAL-mode). Dedicated 32" and 16" range can be selected via DIP-switch.

FINE TUNE

In TUNE-mode the AMOUNT potentiometer allows for precision tuning in the range of +/- 1 semitone. In center position the output wave will be tuned according to A=440Hz. TUNE/WARBLE mode selectable via DIP-switch.

WARBLE MODE

If WARBLE-mode is selected via DIP-switch, and AMOUNT potentiometer is set to zero (fully counterclockwise) the WAVE-output is tuned acc. to A=440Hz.

When AMOUNT pot setting is gradually increased in WARBLE mode and several notes are played simultaneously, notes 1, 4 and 7 will be perfect pitch however notes 2, 3, 5 and 6 will be detuned up/down according to the AMOUNT-pot setting with full detune (1 semitone) achieved at the fully clockwise position. MIDI channel-pressure and aftertouch commands are internally routed to modulate the WARBLE amount.

DECIMAL (METRIC) MODE

If DECIMAL-mode is selected via DIP-switch, the octave will be splitted into 10 notes (instead of 12 as in standard mode). This allows for metric-music compositions, interesting effects or just playing jokes on somebody ;-)
DECIMAL-mode also has 7-note polyphonic WAVE output. Due to its extended frequency-range the octave DIP-switch selection has no effect in DECIMAL-mode.

CONTROL-VOLTAGE OUTPUTS

Mod-wheel, Volume, Aftertouch (Channel-Pressure) and Velocity. All CV-output are DC-coupled 5V.

SUPPORT

If you have any questions or need more information about our products please contact us at www.altmann.haan.de



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ALTMANN MICRO MACHINES

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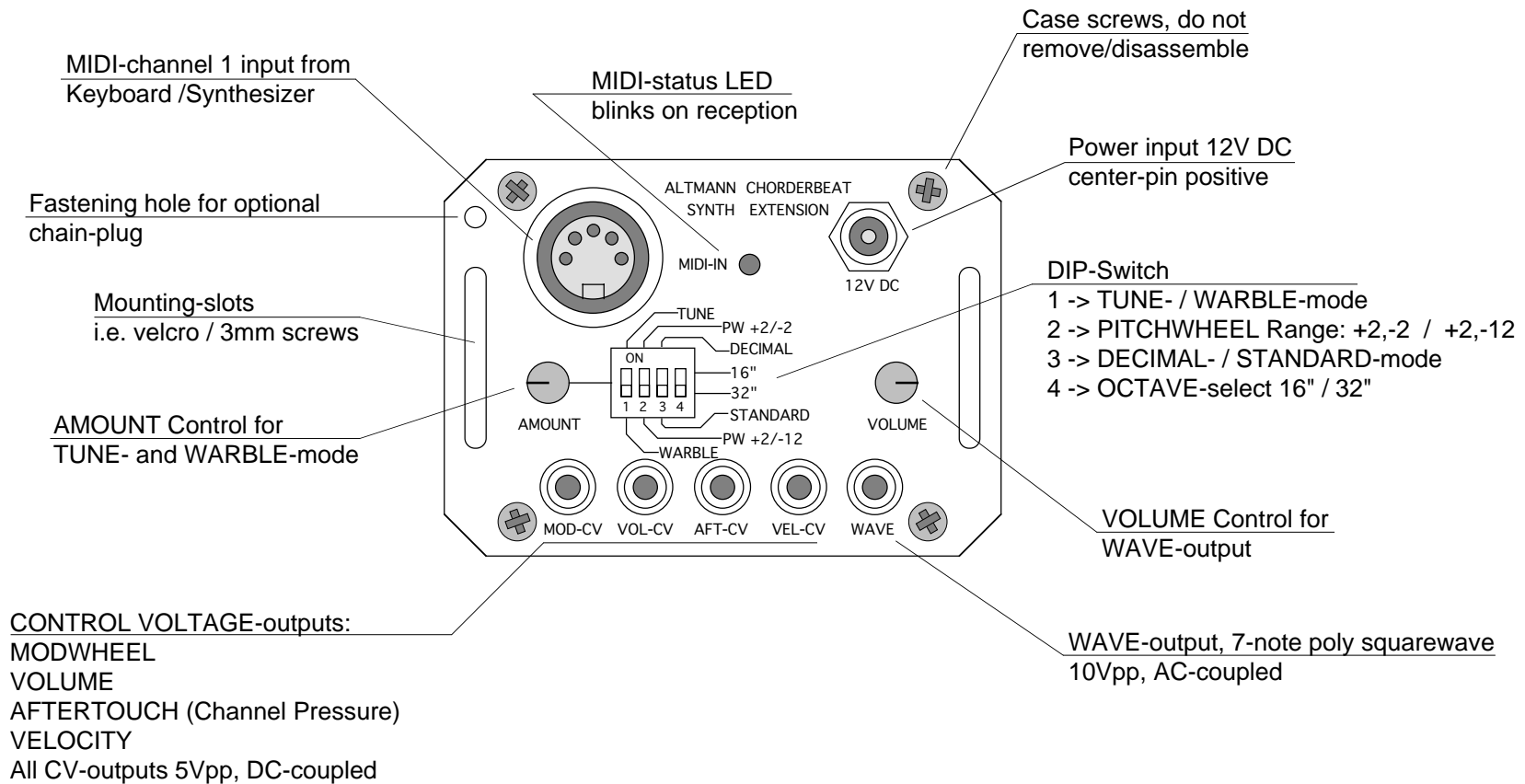
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ALTMANN CHBT COMPONENTS

ALTMANN CHORDERBEAT SYNTH EXTENSION



ATTENTION !

Protect from dust, heat, liquids and moisture. Removal of case-screws will void your warranty. No user-serviceable parts inside.