REDDI

The REDDI (pronounced 'ready') is a legend among professional session players and commercial studio owners because it helps bass, synths, and guitars to just 'sit' in the mix with less processing and fuss. The hybrid tube/solid state gain circuits, beefy transformer, and oversized power supply have an uncanny ability to both reign in transients and punch them up. The REDDI plugin is designed to be used as any analog DI would: first in the chain, as an initial treatment before compression, saturation or EQ. The plugin's added low shelf, not found on the original hardware, is tuned for electric bass but also adds wonderful weight and thickness to kicks, synths, even vocals.

REDDI
## DEEPER INTO THE CONTROLS

THE CONTROLS

INPUT   Boost or attenuate the input signal coming into REDDI, up to 16dB in either direction. This control allows the operator to gain-stage the signal, optimizing the input level before tailoring the tube saturation with the Level knob.

OUTPUT   The final piece in your gain-staging toolbox. Use this to set your output gain so that the level coming out of REDDI is roughly equal to what came into it (unless, of course, you need it to be hotter or softer for the next plugin in the chain).

LEVEL   The higher this goes, the more of REDDI's uniquely punchy, smooth distortion you get. For even more control, use the "Input" knob to tailor your gain-staging before using "Level" to dial in just the right amount of desired effect.
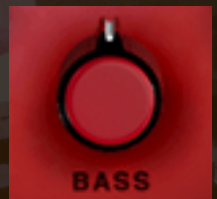
BASS   A 100Hz pre-emphasis low shelf, tuned (gently sloped) for electric bass, that nicely warms up signals without generating mud.

PHASE FLIP   This switch inverts the polarity of the signal as it leaves REDDI. This can correct recordings where the universal polarity is reversed (i.e., the initial transient goes negative, or 'down' on the waveform). Sometimes, though, this can help a bass-heavy signal sit better in the mix, even though the original polarity is correct, because some things glue better when 'upside down'.
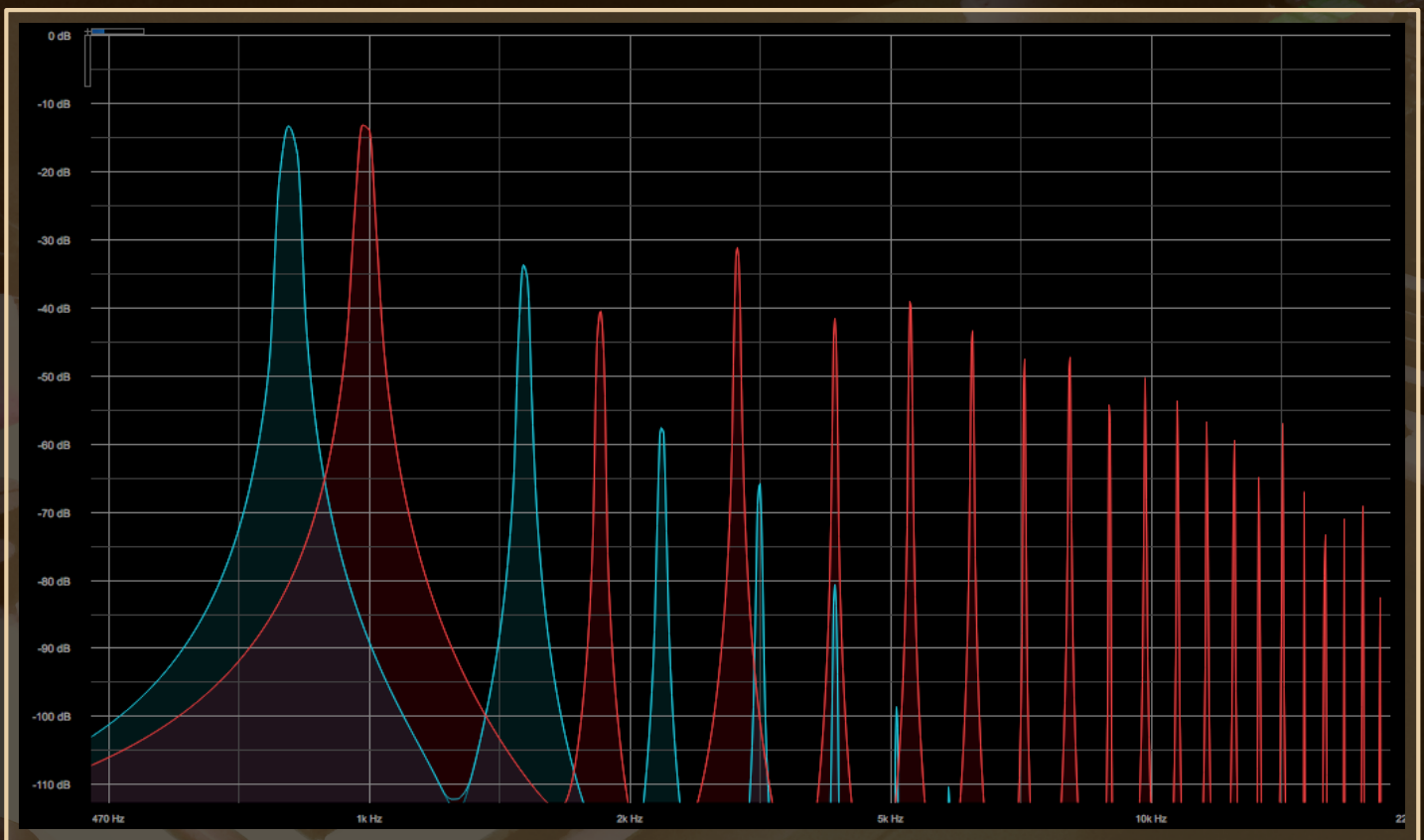
HEADROOM

A simple control with enough going on under the hood to earn it its own section in the manual! Flipping this switch attenuates the input signal by 20dB, with an offsetting 20dB boost on the output, resulting in a relatively gain neutral increase in operating headroom. Increased headroom = subtler, gentler distortions.

A padded REDDI creates a different flavor of sound than an unpadded one, with around ¼ of the distortion, making this switch useful for more subtle transient rounding and gentle warming effects.

Check out the graphic below for a visual representation of the effect the headroom switch has on harmonic distortion levels.

BLUE: +20DB HEADROOM 'ON'   **RED: +20DB HEADROOM OFF**

TIPS AND TRICKS

KNOW THE EQ

The REDDI's Bass control is a 'pre-emphasis' eq, meaning it adds level to the low end before it hits the distortion circuit. If you think of distortion as a form of limiting (just as limiting is a form of distortion), then you will understand that turning up the Bass EQ does not necessarily result in the level rising the way you might expect. The low end's rms energy will always increase proportionately, but depending on the amount of distortion being generated, 10dB of boost (e.g.) will produce less than 10dB of increased level... sometimes a lot less. Welcome to the psychoacoustics of loudness!

DON'T GET FUZZY

Like the analog hardware, the REDDI plugin was not designed to be a fuzz box and was not optimized to sound euphonic when driven into extreme distortion (although you never know, so don't be shy). But it generally sounds quite lovely at the point just before intense breakup, when the tube harmonics are singing but the waveform is not being hard clipped.

NOT QUITE THERE? FLIP THAT PHASE!

Feel like your track is almost there, but not quite? Try flipping the phase! It may be that your low-end transients are fighting each other, or there's just something about the push-pull of the waveform that isn't agreeing with the rest of your mix. You might be surprised by how effective the occasional phase-flip can be!

PRESET MANAGEMENT

BANK   PRESET   STATUS LED

BANK   Banks are handy ways to organize groups of presets into categories you create. To select a bank, click directly on the current bank name and a dropdown list will appear. Select New to add a new bank to this list. Select Rename to rename the current bank, editing directly on the name itself. Select Delete to delete the current bank. WARNING deleting a bank deletes ALL of the presets within that bank, and cannot be undone. A warning dialog will appear to confirm you wish to do this, please choose carefully!

PRESET   A preset stores the state of every knob and switch on the main GUI, as well as the state of the Sidechain select, Polarity switch, and detector Link. Use this to save and recall your favorite settings, trade settings with other REDDI users, and import new banks from UBK whenever he can remember to do such things.

To select a preset, click directly on the current preset name and a dropdown list will appear. Select Save As to create a new preset in the current bank. Select Save to overwrite the current preset.

STATUS LED   This light indicates whether the current state of REDDI's controls is identical to the settings in the currently active preset. Green indicates that the REDDI's settings and the preset are identical, Red indicates that controls have been changed since the preset was loaded. WARNING If you load a different preset when the Status LED is Red, you will lose the changes you've made to the current preset.

REDDI
DEEPER INTO THE CONTROLS

DSP / AUXILIARY CONTROLS

BYPASS	REDDI INFO	HELP	OVERSAMPLING ON

BYPASS   Bypasses REDDI

OVERSAMPLING ON/OFF   Toggling this switch defeats Kush's custom, proprietary oversampling algorithm and filters, which frees up critical CPU cycles. This is a session-wide preference, so toggling the Oversampling for one REDDI automatically toggles it for every other REDDI in the session. REDDI's code has been highly optimized so this control can generally be left On in all but the most demanding sessions.

HELP   Press this button to go directly to the Support page at thehouseofkush.com

REDDI INFO   Click to view a handy reminder of what all these fancy controls are for.

WHAT'S NEXT?

GOT QUESTIONS?

We've got answers! Head to www.thehouseofkush.com/support for all your plugin support needs.

INTO ANALOG?

Ready to pull the trigger on some of Kush's Analog options? Head to www.thehouseofkush.com/analog to read up on all the latest Kush has to offer. Watch videos, hear demos, and drool over the fantastic warmth and detail only Analog can bring to your sound.

WANT TO WIN A FREE PLUGIN?

Learn to mix while Gregory Scott (UBK) of Kush Audio and ITB Mixing pro Nathan Daniel answer listener questions, crack themselves up, and offer weekly chances to win FREE Kush plugins! Search "UBK Happy Funtime Hour" on iTunes and Stitcher, or visit...

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